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**Book Review**

Golf Operators Handbook . . . Published by the National Golf Foundation, 407 S. Dearborn St., Chicago 5, Ill. . . . 112 pages, fully illustrated . . . Price $8, postpaid.

Golf Operators Handbook, a planning, building and operating guide for miniature courses, driving ranges and par-3 courses, is just off the press, Rex McMorris, executive vp of the National Golf Foundation, has announced.

The 112 page book is profusely illustrated with more than 150 photos and plans of these three types of operations and contains up-to-date 'how-to' information collected from all parts of the country by the Foundation staff.

McMorris pointed out that the need for such a book has become acute in recent years because of the constantly growing public interest in all forms of golf. Evidence of this interest, he said, lies in the increasing number of inquiries received by the Foundation from individuals and groups throughout the U. S. who want to invest in such facilities. He added:

**Cites Profit Potential**

"While the Foundation is primarily concerned with development of more regulation golf courses of all types to fill expanding demand, it recognizes the appeal of other golf facilities and their value as breeding places for new golfers as well as their profit potential as successful businesses.

"The Golf Operators Handbook is designed to assist new operators of miniature courses, driving ranges and par-3 (pitch-and-putt) courses in getting off on the right foot — and to post experienced operators on new ideas and methods developed in various parts of the country during the post war years."

The following partial table of contents highlights information contained in the new book. (Check or money order should accompany all orders for the book.)

**Miniature Golf Putting Course**

Is it profitable? / how to get a miniature golf course / proven designs / prefabricated courses / selecting the site / area required / lighting boosts play / fencing, routing & signs / equipment / tournaments / insect control / drainage / construction

**Golf Driving Range**

Area required / selecting the site/ location / zoning & licensing / financial elements / topography / soil resources / drainage / water / electric power / plan for expansion / safety factors / tee masts / grass tees / earthen tees / automatic tees / sheltered tees / double deck tees / fairways and target greens / turf maintenance / practice sand traps / lighting / range buildings / other facilities / equipment / clubs and balls / ball containers / ball retrievers / club display / club maintenance / the golf shop / promoting the range

**Par-3 Golf Course**

Origin and history / area required / land, construction operation and maintenance costs / appeal to golfers / golf centers / planning the par-3 / is an architect necessary / selection of site / soil factors / power and water / terrain / natural features / designing the par-3 / variety of holes / yardage plans / tees / greens / traps / lighting for night play / how to get a par-3 / the private operator / the municipality / leasing municipal land for a par-3

**Practice Putting Greens**

How to build and maintain a putting green

**Swinging Around Golf**

(Continued from page 18)

rings to Walker Inman and Mike Krak . . . Pro Buck White's son, Garrard, who used to go to many tournaments along the circuit with his mother and dad, qualified in the Mississippi section for the National Jaycee tournament.

Betty Dodd with her guitar and repertory of hill-billy and lone prairie songs has raised about $4000 at women's golf events for the Babe Zaharias Cancer Fund . . . The Ladies PGA has done considerable collecting for the fund, the girls getting $1700 at Detroit alone.

Very impressive durability record made by Fred Wright this year in losing the Massachusetts Amateur championship final, 6 and 5, to a 19-year-old opponent . . . Fred has won seven of those championship; the first in 1920 and the seventh in 1938 . . . He was Western junior champion in 1917.

Survey on "Kiddieland Operations" made by Billboard magazine shows miniature golf courses ranked sixth in popularity of amusement parks . . . Kiddie rides, refreshment stand, novelty stand, restaurants and penny arcades led the miniature course . . . Golf driving range ranked 12th in popularity.

Golfwear business now accounts for about $8 million yearly sales volume at pro shops . . . Many older pros remember, not too far back, when golf hosery imported from relatives in Scotland was the only apparel item pro shops handled . . . Murray Lesser, head of Bartlay, Ltd., which supplies many of the smart shirts sold through pro shops, is the son of the man who first did a big business in the US specializing in sports wear . . . Lesser, Sr., imported British polo shirts and made them basic styling for sports shirts.

Clearing starting this month on 5000 acre tract at Sarasota, Fla., which will have, with
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No Power Failure

Eshelman Gasoline Golf Cars make electric cars as old fashioned on the golf courses as on the highway.

Economical To Operate
Up To 36 Holes Per Gal.
Actually costs less to operate than the ordinary caddy fee. Saves time and energy.

Engine parts & service available in over 7000 national service stations
Makes Golf More Profitable
For Clubs and Pros—Eshelman golf cars provide new source of revenue. It costs only pennies a day to operate. They speed up each round, lets players get in more late afternoon play. Solves caddy shortage.

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Deluxe 5.25 HP Golf Car With Automatic Electric Starter, Reverse
There's no clutch...no battery-charging to worry about. No danger of being stranded in mid-course with run-down batteries. Here is the perfect caddy. Seats 2 adults, has double bag rack on back. Completely dependable, gives you powerful transterral on rugged terrains. Large ball bearing wheels prevent tipping and sliding. Now, you can relax, feel freer, play longer.

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September, 1956

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residential sites, rivers and lakes, an 18-hole course designed by Dick Wilson. Jimmy Demaret and Jack Burke are officials of the golf development. Tom Utterback is sales and promotion mgr. of the project.

Bill Taylor, pro-mgr., Casa Grande (Ariz.) CC says the Uganada Bermuda greens on their 3315 yd., par 36 course are impressively good. Fly out and see for yourself; there’s a large landing area bordering the course. Knollwood Club, Lake Forest, Ill., in publicity for National Amateur which will be played there Sept. 10-15, tells of altering borders of fairways and greens by change in mowing lines as only course changes made for the championship. Lindo B-nardini is Knollwood grounds sup’t. Jules Platte is the club’s pro and Paul C. Frederick its manager.

James M. Royer, gen. chmn. of the club’s organization for the Amateur, prepared a table of organization for conducting the tournament that is by a long way the most practical thing of this kind that’s been done. If your club is to be host to a big tournament you might write Royer at Knollwood, Lake Forest, Ill., for a copy of the chart.

Tommy Armour instruction records, “How To Play Your Best Golf All the Time,” setting new high figures for golf teaching discs. Records are long playing, have eight lessons and are made by Grand Award Record Corp., 8-16 Kingsland ave., Harrison, N. J.

Clubs looking into all angles of the Calculita pools might well look into the tax angles set forth by Fraser M. Horn, gen. counsel, USGA, in April 1956 issue of USGA Journal.

One of the best newspaper columns on the club pro that we’ve ever read was done by Roger Barry in Quincy (Mass.) Patriot-Ledger. Barry cites Nick Gianferante and Bob Steill in telling a great story of the club pro’s development and service. He says New England PGA was first pro organization in this country, founded with Jack Shea as president and Harry Bowler as sec.-treas. Bob White, in August GOLFDOM, had the Illinois group of pros organizing before the New Englanders. The national PGA is guilty of a serious and irreparable error of omission if it doesn’t take action mighty soon to have a history of pro golf in the United States compiled.

H. B. (Dicky) Martin who wrote the out-of-print classic “Fifty Years of American Golf” is the man who can do the pro history research and writing job. Jack Jolly, Bert Way, John Inglis, Jim Roche, Carroll MacMaster, Marty Crombe, Peter Hay, John Miller, Matt Kiernan and a hundred other very keen-minded pioneers still are available, and a fellow such as Otto Probst, owner of the world’s largest golf library, and other amateurs would have a lot to contribute. The PGA ought to make a substantial allotment to this historical work at its next annual meeting and get the job under way.

Now there’s another Pine Valley CC. Newest one recently was opened at Wilming-
For greener fairways and greens to be proud of...

keep them dependably watered with

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WORLD'S LARGEST MANUFACTURER OF PLASTIC PIPE

September, 1956
Surry Recreation Associates, Inc., with Bob Allran as acting pres., formed to build 9-hole course at Mount Airy, N. C.

Consider enlarging Key West, Fla., course from 9 to 18 holes and modernizing the whole plant as a tourist attraction . . . Plans submitted by Gulf Securities of Louisiana to Hy Alman, pres., Key West GC . . . James E. Rushin now gen. mgr., Montgomery (Ala.) CC.

Bergen County, N. J., Board of Freeholders allocated $190,000 for 18-hole course to be in play in Spring, 1957 . . . Frank L. Rose, Boston, Mass., buys Kenilworth Lodge and course at Schurig, Fla. . . . Harold “Had” Langdon now pro at Colonia (N. J.) CC . . . Metropolitan (Boston) District Commission new master plan for recreation facilities calls for adding 9 holes to Ponkapoag course at Canton, Mass.

Willie Klein, who has been pro at Wheatley Hills CC (NY Met dist) summers and La Gorce CC, Miami Beach, winters for more than a quarter century is home following serious operation . . . Wm. Langford, veteran golf architect again on job in good condition after surgery in Chicago hospital . . . Passaic County, N. J., completing another 9 . . . When new 9 is opened in Spring, 1957, the county’s Park Commission golf facilities will have 36 holes.

Mountain View CC, Rome, Ga., 9-hole semi-private club expected to open this fall . . . John Lam, Charles Camp and R. T. Burchett are owners . . . Begin work on new Corolla, N. C., $25 million coastal resort which will have 18-hole course . . . Suburban CC, Pikesville, Md., offered $2 million for its 135 acres . . . Club considering building new plant elsewhere in suburban Baltimore.

New 9-hole course, added to 9 holes at Aberdeen, Md., Proving Ground . . . Course cost $49,500 . . . Paid from profits of post exchanges and other special services facilities . . . S. G. Loeffler Co. golf operations in Washington, D. C., increased to 99 holes when second 9 at Langston course recently was opened . . . Fairmont GC, Riverside, Calif., bought by Fairmont Hotel Corp., San Francisco.

Oxford CC, Chicopee Falls, Mass., 9-hole course expected to be sold soon and sellers to build 18-hole course in Agawam . . . Thendara GC, Old Forge, N. Y., to add 9 to its present 9 holes . . . Chuck Lewis, Colma, Calif., range owner and trick shot golfer and his 5-year-old daughter Linda are playing eastern engagements and going big.

San Mateo County, Calif., thinking about building course on San Francisco Water Dept land . . . Fredericktown (Mo.) CC building clubhouse . . . Kalamazoo, Mich., planning second 18-hole muny course . . . Sacramento, Calif., to have 9-hole semi-private course in Franklin Gardens next spring.

Rossville (Ga.) GC&CC organized by group which includes city’s mayor, Martin Bryan . . . Carter Kirven makes offer to build 9-hole course at Brea, Calif., subject to City Council approval of land lease . . . Eddie Spitz opens his 18-hole Lakeside GC in Kansas City dist . . . San Francisco park supervisors vote $250,000 to build new 9-hole McLaren Park course.

Osage Hills CC, Tulsa, Okla., opens first 9 . . . Work started on Spring Valley CC, 18-hole course, to plans of Dick Wilson . . . Miami Springs CC, owned and operated by City of Miami, Fla., may have Baseball Players’ tournament next winter played only in afternoon.

Tom Fitzgerald, Boston Globe, was the only golf writer who named Ted Kroll in Golf Magazine poll as the man who would win George S. May’s World’s championship . . . By the way, May has done something lately that possibly is more historic than his $100,000 pro prize for the World’s Championship winner . . . He gave his course up . . . Elmer Lemke $800 as a bonus for excellent condition of the course during the All-American and World’s championships.

May’s World’s championship in 1957 will be Aug. 8-11 . . . His All-American will be Aug. 1-4 . . . George set another date when, as host of the Chicago District Golf Assn. president-pro annual tournament and banquet recently, he invited presidents and pro to be his guests Monday, Aug. 19 next year . . . Lou Strong, Tam O’Shanter pro, said pro shop sales during the May tournaments were three times previously recorded high.

Bob Toski conducted clinic for contestants in U. S. Junior Chamber of Commerce 11th annual International junior boy’s championship . . . The tournament at the Edgewood muny course, Fargo, N. D., and the Fargo CC, had record number of local entries and better qualifying figures than ever before . . . Coca Cola bottlers were co-sponsors.

Next British Walker Cup team to give consideration to candidates from artisan golf clubs, and other British public course players, says Raymond Oppenheimer of the R&A Selection committee . . . Next Walker Cup matches in US next year . . . British have won one, the US 14 . . . Kenya Seniors’ team making US tour in late August and September, return engagement of the US-Kenya affair in Africa last year . . . Matches at Baltusrol, Burning Tree, Pine Valley, Old Elm, Oak Hill, Royal Seigniory, Royal Ottawa, National Links, Maidstone, Shinnecock Hills and Apanamis.

Ralph Weidenkopf, for 55 years active in pro golf in the Cleveland district, died of a cerebral hemorrhage at Tampa, Fla., in July . . . Prior to his retirement on Jan. 1. he had served as pro at Pepper Pike CC . . . For 20 years he was sec-treas., Cleveland District PGA . . . He was an especially successful teacher and designed several courses.

Another service at Richmond (Calif.) GC: you can get your car washed and lubricated while you’re playing your round . . . Busiest golf range in world is Devon Links, 20 acres

(Continued on page 65)
THE SUPER
RENTAL CART

Wherever you see the genuine Kaddie Kart you know the club has the best and finest for its players. Truly a mark of distinction.

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Basket shaped lower brackets with no straps required can be furnished without extra charge on new Karts. Write for information about basket type lower brackets for old Kaddie Karts.

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Please send complete information about the Automatic Kolapsi Kart for (resale) (my private use).

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City State

Club Position

September, 1956

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Business management represents a great opportunity for improvement and development in the supt's profession. Technical advancements have reached the point where the growing of grass can be accomplished with greater ease and less effort than at any time in turfgrass history. Better grasses, modern machinery, improved techniques, effective chemicals and long-lasting fertilizers mean that the supt. can produce championship turf for everyday play with greater ease and assurance than ever before although still at the mercy of nature.

The "greenkeeper" of yesteryear becomes today's supt. by learning and applying modern techniques of business management. This means, first of all, organizing activities on the golf course in a business-like manner. This includes an inventory of all physical assets, soil tests of every area, plans for alterations and improvement, replacement of needed equipment and periodic progress reports according to plan.

It is not my intention to attempt to explain how one can achieve proficiency in business management. This subject will be given consideration at the GCSA of America conference at Louisville, Ky., next February.

During a recent visit to Chicago we saw evidence of successful business management by supts. Examples of efficient planning and programming may be found in the well kept, attractive supt's offices at several courses. We visited only a few, so we can cite only a few.

There are many good business executives among supts. Those whom we mention here are representative of supts. of the future who are here today. No slight is intended to those who are not named.

Bob Williams, Beverly CC supt, showed us plans and records that tell why he has gained such high ranking in his profession and in his club. He has earned and has been given added responsibilities involving maintenance of all physical facilities at the club. The net result has been regular salary increases, complete freedom to develop his program and full cooperation of all club employees. In addition to growing grass, he must understand plumbing, refrigeration, heating, painting, repairs, etc. In a large measure Bob has become "Supt. of Buildings and Grounds".

He is not the only one in the Chicago District to achieve this position. Ray Gerber at Glen Oaks, Gordon Brinkworth at Olympia Fields, Don Strand at Westmoreland — and we could name many others — also have raised the standards of the profession, with profit to themselves, by applying principles of business management.

In our capacity as an agronomic adviser, we are often called to a club where money is no object, where they want only the best and they can afford to pay for it. At other clubs there is a tight budget and every move must count. Recommendations must recognize existing conditions. The greater the budget limitations, the greater the necessity for sound business management. The sooner supts. develop this phase of their activities to the utmost, the sooner their profession will be recognized and given just compensation.

Q. We would like to have you help in selecting the most adequate grass or bent for our new fairways. Soil is ideal but after winter rains it gets a bit clayish and dries up quickly. Fairways have been irrigated and allowed to grow natural grasses, some with local river bent. Fairways are thin and poor. Irrigation expenses have to be kept low in summer when course is generally used. So far we have kept Bermudas out, but upon hearing that there are improved strains with fine leaves and better color in winter, we may want to try some, perhaps with dwarf clover. Would a soil analysis help? (Chile, S. A.)

A. Yes, a soil analysis will help. You may
Entire unit can be set up for use—or folded compactly against wall, completely out of way, in less than 2 minutes by one person.

The first successful attempt to consolidate all the needed requirements for a practical indoor driving range—the only complete package golf driving range for all indoor installations. For golf clubs it can be installed anywhere in the club house, in meeting rooms, pro shop, lobby, even in the dining room if other space is not available, because it can be quickly taken down and put up again. Safe to use—the ball cannot be driven out of it or cannot rebound or ricochet back against the player... ample space provided for backswing for tallest players. Special uni-level driving platform assemblies are provided for right or left handed players. If your golf club is open all year 'round, here is the ideal complete setup for instruction, practice and enjoyment of members... the PAK-A-WAY Golf Driving Range permits the pro to give lessons at all times and can be of help to him in the sale of golf clubs. Durable and substantially made... no part of the entire assembly will mar the surface of the floor... may be attached to any wall. The complete package includes net, backstop and driving platform with built-in rubber tees and brush mat. Player opening 20' wide; overall height 11'; shipping weight 260 lbs. Investigate now so that you will be ready for the approaching winter non-playing season to bring to your members "golf, the game of a lifetime". Write today for complete details and price.

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Next year's golf bag features are designed into this year's line of top-quality Tufhorse bags.

This large Keystone model of two-tone sturdy duck features embossed steerhide leather trim on top and bottom cuffs, molded handle, deluxe wing-type sling suspension and "truss-ribbed" saddle at top of side panels. Every player convenience-feature is provided. Available in canary and black, red and black and gray and black.

More on Poa Annua

Dear Dr. Grau:

In June GOLFDOM I saw where you had several questions on poa annua, and I thought you might be interested in knowing how I controlled it in my winter rye greens.

About the second week in March when I first noticed it coming in, I sprayed my greens with an application of PMAS (1 oz. 1000 sq. ft.) and another application of PMAS same strength in 7 days. Then in 3 days I sprayed with an application of 24-D fungicide (3½ oz. per 50 gal. of water to each green).

This spraying completely eliminated poa annua from my rye greens and, as yet, I have none in my Bermuda greens. Maybe this might help some of the southern courses keep poa annua out of their greens.

Hal Jernigan
Beechwood CC, Ahoskie, N. C.

of Agriculture. This I shall be glad to arrange for you.

Among the Bermudas that you should try are Tiffine, Uganda and Gene Tift. Should one or more of these strains appeal to you it will be possible to arrange air shipment of commercial quantities.

Bents and Bermudas tend to form thatch and mat which become objectionable for play and for maintenance. Both can be overcome mechanically so that this need not worry you.

Bermuda will give you maximum satisfaction during summer when you have most of your play. Bermuda will be far more economical on irrigation expenses although part of the saving will be spent on fertilizer — a good investment.

Q. I plan on putting in a new green, and would like to try some Polly Cross if I can locate seed. Have been referred to you for information. (Kans.)

A. "Polly Cross" now is known officially as Penncross creeping bent seed. There should be a supply of seed soon for fall planting.