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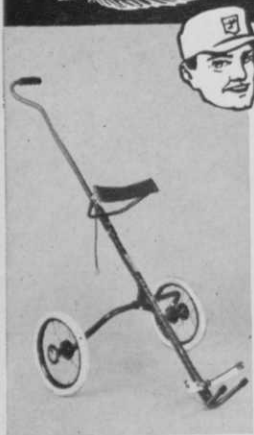
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course, he should have a sufficient working knowledge of engineering to make plans, layouts, and specifications, and to be intimate with the technics of earth moving and grading.

Know Cost Control

He should know costs, construction and maintenance, and how to control them. He should know the machinery and equipment needed for both construction and future maintenance use. Few, if any, course architects can be considered expert in all of these sciences. But through years of training and experience the capable architect possesses the above qualifications, at least to the extent that he recognizes problems, admits to whatever limitations he may have, and will seek out more specialized advice when needed.

If an architect has enough of these prerequisites or acquires them, from there on the quality of his work depends largely on his natural ability. If he is gifted with an artistic sense and originality his work will show it.

Should Supervise Construction

The architect's role in course construction varies. Most designers prefer to have the overall supervision of construction as part of their contract with the developers as a guarantee that the details of their design work will not be lost through careless or unqualified supervision. Some architects will contract to build the course, but most prefer to retain the role of architect and to remain in an advisory capacity in assisting the developers to make suitable contractual arrangements.

The architect will no doubt advise the developers to select the man who will be put in charge of maintaining the course after it is built. This man, a qualified superintendent, should be employed early in the construction phase so he will be available to consult with the architect on maintenance problems and also be familiar with the construction details from the start of the job.

Golf course developers should choose their architect and gain confidence in his services early in the development. He can help in deciding on the type of course needed, in choosing suitable property, in cost control, design, construction and, finally, in helping to set up maintenance standards. His services may be of great value in any one or all phases; to not utilize them is false economy.



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Miscellaneous Merchandise

(Continued from page 60)

them from you if you take the trouble to sell them. If they'll eventually increase your profit by five, ten or twenty per cent, they are something you can't laugh off."

Below, in parentheses, is the percentage of shops that handle the Miscellaneous Items listed in the survey:

Neckties (25)	Sandals (10)
Tie pins/clasps (20)	Slippers (10)
Cuff Links (20)	
Belts (65)	Ash trays (10)
	Figurines (15)
Bracelets (10)	Sunglasses (20)
Necklaces (5)	Lighters (20)
Pins (25)	Cigaret cases (10)
Wallets (15)	Repellents (60)
Luggage (35)	Lotions (85)
Shaving Kits (10)	
Loafers (35)	Instruction books (40)
Tennis shoes (15)	Other books (20)

Items not mentioned in the survey but which pros say they stock are: Shoe bags, golf games, chapstick, ball retrievers, hand warmers, vitamins, records, drinking glasses, electric razors, purses, foot spray, waterproof spray, playing cards and hunting coats.

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Sugar In That Turf

(Continued from page 38)

be beneficial otherwise when the levels of available calcium are low. A dolomite should be applied when a soil test indicates a low level of available magnesium. Besides neutralizing acidity, dolomite furnishes magnesium and eliminates any possibility of a soil deficiency.

Spread It Out

It is not necessary to apply enough lime at one time to change a strongly acid soil to neutrality or very slight acidity. It may upset soil equilibrium. The better way is to use 1½ to 2 tons per acre annually until pH 6.0 is attained. Then an application every two to three years at a rate which will maintain this reaction range will suffice.

Type of soil plays a part in fertilizer procedure. It governs kind of fertilizer, rate and frequency of application. Sands are very low in all nutrients and are un-

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able to fix and hold applied soluble nutrients. That means frequent applications at light rates or the use of slow release fertilizers. These types are feasible for all elements but nitrogen. In theory even this is practical, but not always in practice. Hot, moist summer weather may accelerate the release rate so grass can become succulent at a time when it should be sturdy and tough. The safe way is to use frequent light applications or build reserves of all nutrients except nitrogen and then use moderate rates of slow release forms of nitrogen. Larger amounts may be feasible in arid regions where there is no danger of overly wet periods.

Revolutionary Procedures

If the very sandy mixtures advocated by the USGA green section for greens are accepted generally, it will involve revolutionary changes in fertilizer procedures on greens. Then it may become necessary to use all seven of the major nutrient elements and apply trace elements also.

The exchange complex is the important feature of loam and clay soils. These soils will retain and release all soil nutrients, provided the soil is not too acid, or too alkaline. Then phosphate and potash can be used regularly along with nitrogen, or they can be applied once or twice a year. Interim feeding then becomes a matter of nitrogen, the big element in any fertilizer program.

Phosphate and Potash

From a practical standpoint, many successful superintendents provide for mineral needs on greens and then rely on regular applications of nitrogen. They use from one to two pounds of actual nitrogen per 1,000 square feet. Minimum amounts of potash are best in summertime in Bermudagrass greens in order to promote vegetativeness. Excessive potash then encourages formation of stemmy seed stalks. The time to use phosphate and potash liberally is in the fall just before the greens are overseeded for winter play.

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Officers and directors of the Middle-Atlantic GCSA, elected at that organization's recent two-day turf conference in Baltimore, Md., are: (Front row, l to r) Sheldon R. Betterly, sec.-treas.; Angelo Cammarota, vp; Thomas A. Doerer, pres.; and Dr. George S. Langford, U. of Maryland, turf advisor. In the second row are the directors: Charles B. Schlaestock, L.R. (Bob) Shields, George C. Gumm, Alex D. Watson and Robert Martino.

Palmer Closes In On His First Half Million in Tourney Prizes

Arnold Palmer, who has been playing professionally since 1955, is easily the leading postwar money winner among PGA tournament performers with official earnings of more than \$473,000. By winning \$128,230 for the 1963 season, Palmer increased his lead over Doug Ford, the runnerup, by approximately \$100,000. At the end of the 1962 season, Ford also in second place, was only about \$38,000 behind the Latrobe, Pa. strong man.

Julius Boros, on the strength of his great 1963 season, passed Sam Snead and Cary Middlecoff in the postwar dollar derby, and now occupies third place. Snead, incidentally, overtook Middlecoff and retained his No. 4 rating. A PGA footnote calls attention to the fact that Snead amassed a fortune in earlier years not covered by the statistics.

Nicklaus Moves In

The most conspicuous new face in the PGA standings is that of Jack Nicklaus. Unranked after his first season on the tour, Jack earned more than \$100,000 in 1963 and jumped into 23rd place on the postwar list. He has averaged more than \$80,000 in winnings in his two seasons as compared to about \$53,000 for Palmer. Gary Player, the third member of what still is referred to as "golf's big three," picked up \$55,000 in official earnings last year, ran his total to \$207,000 and moved from 24th to 15th place.

All-Time List Not Planned

The PGA started compiling composite earnings in 1959 by going back and picking up the records of all tournaments from 1947 on. It does not plan to compile an all-time list, as it has been requested to do on several occasions. The reason is that records kept prior to 1947 are incomplete. In addition, many summaries kept before this time do not indicate whether the tournaments were official or unofficial.

Arnold Palmer	\$473,008
Doug Ford	331,975
Julius Boros	331,282
Sam Snead	306,040
Cary Middlecoff	291,244
Dow Finsterwald	288,820
Bill Casper, Jr.	281,414
Gene Littler	280,607
Ted Kroll	255,862
Art Wall, Jr.	242,037
Jack Burke, Jr.	236,396
Jay Hebert	214,965
Mike Souchak	208,167
Tommy Bolt	207,719
Gary Player	207,285
Lloyd Mangrum	201,184
Fred Hawkins	195,949
Doug Sanders	192,914
Bob Rosburg	192,527
Billy Maxwell	186,834
Jerry Barber	175,791
Jimmy Demaret	162,593
Jack Nicklaus	161,908
Jim Ferrier	160,568
Ken Venturi	158,517

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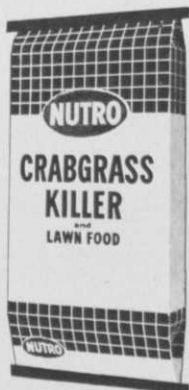
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Swinging Around Golf

(Continued from page 24)

sons . . . Wichita Falls (Tex.) CC will expand its clubhouse facilities with a \$250,000 building project in 1964.

Great Hill CC in Seymour, Conn. plans expansion to nearby 175 acres . . . Brunswick (Ga.) CC will tear down present clubhouse and build a new \$85,000 structure . . . Agate Beach GC in Newport, Ore. ushered in the new year with an Open House in its new clubhouse . . . Bill Lewis goes to Bainbridge (Ga.) CC as manager, supt. and pro . . . New clubhouse at Bainbridge should be completed about mid-April.

New clubhouse at Greenville (N.C.) CC opened in January . . . Cocoa Beach, Fla. considering 18 to be completed early in 1965 . . . Sites for a muny course in Middleton, Ohio are being inspected . . . 75-year old Cambridge Springs, Pa. resort with two 18-hole courses, swimming pool, tennis courts and hotel has been purchased by Royston Laboratories and North Suburban Lands Co. . . . An

"investment in recreation" at Cambridge Springs includes expansion plans for a new 9, 75-room motel and a 200-plus capacity restaurant.

Beaver Island State Park, Niagara Falls, N.Y. to open 18 in Aug. . . . Two muny 18's scheduled for completion in the fall in Chesterfield County, Va., Midlothian district . . . \$295,000 has been set aside for Olmos Basin GC under San Antonio, Tex. public works 1964 budget . . . Co-operative efforts to resurrect muny course at Grand Island, Nebr. are under way . . . Grand Island course was snagged last summer on legal difficulties half way to completion . . . Rockleigh Bergen County CC at Rockleigh, N.J., adds 9 to present 18.

New muny 18 in Dundee, Ill. to be built from federal funds and revenue bonds to be repaid from greens fees . . . Tangled in tax decisions, the proposed course at Tampa International Airport, Fla. is still looking for a private operator . . . The Lone Palm 18 at Lakeland, Fla. may soon be surrounded by 300 homes and a luxury motel . . . Hancock, N.Y.

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has approved selling its 110 acre course for \$110,000 . . . Revamping of Westwood CC 18 in Houston, Tex., boosts the par from 70 to 71 . . . Noyac G&CC, near Bridgehampton, N.Y., is nearing completion.

Injunction secured by the John MacArthur interests prevented the PGA from transferring its club and Senior championships and its merchandise show from the PGA National courses to Port St. Lucie, big real estate development about 45 miles northeast of Palm Beach Gardens, where PGA championships and the merchandise show were held last year . . . The injunction plus a crash program of trying to complete the clubhouse, and hurried switching of room reservations, gave the PGA-Palm Beach Gardens deal a nearly complete record of screwing up every possible detail that could have been handled by informing PGA members about what was going on with the real estate promotion job.

With the PGA involved as the front for a multi-million dollar subdivision, the situation called for all the good sound business advice PGA officials possibly could get from members armed with all avail-

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able facts . . . Members asked to know what the score was on the Palm Beach Gardens — PGA operation and were puzzled, then sore, when they weren't told

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Henry Lindner (1), professional at Bellemeade CC, Nashville, Tenn., and his three amateur partners, Bedford Davie, Mack Brothers and Marshall Trammell, won the first annual Jamaica Jamboree golf tournament early in January. The 54-hole best ball, pro-am event was played over the Tryall and Half Moon-Rose Hall courses near Montego Bay and had 76 participants. Davie and Brothers are members of Lindner's Bellemeade club and Trammell belongs to the Lost Tree GC in West Palm Beach.

. . . There was nothing to be officially hidden . . . If a scorecard of a round of golf was as foggy as the so-called business facts and figures of the Palm Beach Gardens-PGA proposition, the players would be disqualified.

MacArthur's injunction may work out okay for the PGA by aiding the Warren Cantrell administration to learn what the PGA has been committed to pay for and how much . . . That information has to be passed on . . . Then the organization can get to work on other problems of considerable more urgency to its members.

PGA advisory committee has been embarrassed by the Palm Beach Gardens arrangement for using the pro group in a subdivision promotion that could cost it a couple of million dollars in capital expense and operating costs . . . The advisory committee is composed of successful businessmen whose study and recommendations probably would have been guided by experience beyond that of PGA officials . . . But the advisory committee itself was not told what had been done and what was happening.

Two questions members are asking: "Did the PGA borrow the \$1 million it was seeking for clubhouse construction last year?" . . . "Has the PGA clear title to courses and clubhouse sites at Palm Beach Gardens?" . . . The publicity phase of the PGA-Palm Beach Gardens deal up to date cannot be regarded as the