

Finale Accents Avoiding Trouble

Sheldon R. Betterly, superintendent, Chantilly National G&CC, Centreville, Va., got them up for the seventh inning of the educational program, Friday morning, starting with the talk on turf problems caused by minerals in irrigation waters. Arch Smith, president, Green-A-Matic Corp. division of Smith Equipment & Supply Co., said that all federal and state water surveys forecast that "all irrigated soils will in time have a soluble salts problem. Smith's slides illustrated the golf course problem of inability to introduce chemical amendments deeply into the soil as the farmer can. He noted that bicarbonates destroy soil oxygen, precipitated carbonates of calcium and magnesium clog fine soil pores and sodium cements the soil. With oxygen restricted, the bacteria decrease and thatch is formed. Dissolved mineral salts in the soil reduce the amount of moisture the grass plants can absorb, hence cause wilt. Smith made a good case for undesirable minerals being the root of a great deal of turf trouble and told (with slides) of treating irrigation water to eliminate unwanted minerals.

Dr. William Klomprens of the Upjohn Co. presented a brief refresher course on fungus and its prevention and control by fungicides. He emphasized that the superintendent must carefully consider identification, planning, execution and evaluation in fungus treatment.

Roger A. Larson, superintendent, Spyglass Hill GC, Pebble Beach, Calif., reported on his findings of effects of minor element deficiencies in soils and turf-grasses as determined in his research on a O. J. Noer Foundation grant. He listed deficiency symptoms of boron, copper, iron, manganese, molybdenum and zinc and warned that there is a narrow range between deficiency and toxicity with the minor elements.

Dr. John C. Harper, Pennsylvania State University, outlined a planned program of fertilization, weighing the factors of grass species, soil conditions, usage and management, climatic conditions, soil testing and materials in the fertilizers. The basic program must be altered in accord with the season, he reminded.

Keith Nisbet, superintendent, West-

Continued on next page

The GAME FOR THINKERS



Can you solve this problem?

1. There are three numbered statements in this box.
2. Two of these numbered statements are not true.
3. The average increase in I.Q. scores of those who learn to play WFF 'N' PROOF is more than 20 points.

Is statement No. 3 true?

A NEW DIMENSION IN EDUCATIONAL GAMES
designed by Yale Professor Layman E. Allen.

"We have been up half the night playing WFF 'N' PROOF. And we're on our honeymoon!" (couple who visited the WFF 'N' PROOF exhibit at the N.Y. World's Fair)
"... you will approve of WFF 'N' PROOF, the game of modern logic. For the expert it's serious fun. For the skeptic it's putting things in their proper place. For the novice it's a course of study." (ESQUIRE)
"... a significant event in the teaching of logic—as significant in its field as the launching of the first satellite in the space race field. It is seems a bit extravagant, let us point out that challenging competitive games capable of teaching with unadulterated enjoyment are still a rarity." (review in DATA PROCESSING DIGEST)

A MOST UNUSUAL GIFT FOR INTELLIGENT 6-TO-40-YEAR-OLDS



Please send me... WFF 'N' PROOF game/s @ \$6.95 each (including \$2.00 for postage and handling). I enclose \$..... and understand that if I am not completely satisfied, I can return the kit in 10 days for a full refund of the purchase price.

Name.....
Address.....
City..... State..... Zip.....
Send and return privileges guaranteed.

Box 71AE New Haven, Conn.

Dealer Inquiries Invited AE

For more information circle number 265 on card

Personalized!

AMERICA'S FAVORITE CHARGE BOOKS

100% FLAT OPENING

FOR ALL CLUBHOUSE PRO SHOPS...
GOLF, TENNIS, SWIMMING POOL,
GREEN FEES, ETC.

1 Book — \$16.50 6 Books — \$38.50
3 Books — \$29.50 12 Books — \$60.00

Postage Paid if check or M.O. is included with order.

NOW! NO EXTRA CHARGE

for copy in body of stock form. 8 tickets to a page, 2 7/8 x 4 1/4 torn-out size. 1000 sets of slips to each duplicate book; 664 sets of slips to each triplicate book.

Stock colors — Duplicate books: original white, duplicate canary. Triplicate books: original white, duplicate pink, triplicate canary. Green, blue and goldenrod sheets available at additional charge of \$2.00 per order. Last copy not perforated to remain in book for permanent record. Ample carbon paper furnished in back of each book. Attractive maroon overhang covers with identifying labels with space for numbers and date book is in use. Write for sample sheets and descriptive circular.

Order now for immediate delivery



NOSCO, INC.

(Formerly National Office Supply Co.)

651 S. Utica Street • Waukegan, Illinois

For more information circle number 246 on card

view GC, Vandoff, Ont., spoke on the economy aspect ever present in the superintendent's planning and told of his money-saving on a tree care program, on foresight in scheduling use of equipment and use of growth inhibitors on the rough. He said he tries more to save on the small regular jobs than on the once-in-a-while jobs.

Fred Grau, veteran of countless turf conferences and valued advisor to hundreds of superintendents, wrapped up the conference with a summation in

Use CLARO Non-Slip
for a **BETTER GRIP**
...BETTER GOLF!



CLARO Non-Slip — assures a better grip in any weather. Gives you greater accuracy — more distance when

you need it. One application lasts all day. Take a stroke or more off your score with CLARO Non-Slip. Fifty cents at your pro shop.

CLARO NON-SLIP for golfers



CLARO LABS., 419 W. Ewing Ave., South Bend 14, Ind.
For more information circle number 209 on card

Edward (Ted) Roberts, superintendent, Fairmount CC, Chatham, N. J., was elected president of the Golf Course Superintendents Association at its 37th annual conference, held at Kansas City, Feb. 13-18. Roberts attended Pennsylvania State University agronomy school. He succeeded his father at North Hills CC, in suburban Philadelphia, in 1951. In 1954 he became superintendent, DuPont CC Louviers course and in 1961 moved to Fairmount. Walter R. Boyesen, Sequoah CC, Oakland, Calif., was elected vice pres.

Newly elected directors: John J. Spodnik, Westfield CC, LeRoy, Ohio; Norman W. Kramer, Point o' Woods CC, Benton Harbor, Mich.; Richard C. Blake, Mt. Pleasant CC, Boylston, Mass.

Hold-over directors: James W. Brandt, Danville (Ill.) CC; B. Tom Leonard, River Oaks CC, Houston, Tex.; Richard A. McLaughlin, Radrick Farms GC, University of Michigan, Ann Arbor.

which he put across the main idea that all the technicalities that had been heard during the conference had to be converted into terms of people as golf is a game for people, not a game for grass.

Turf Care Handbook

A new 24-page turf care handbook is available from the Ryan Equipment Company, 2055 White Bear Ave., St. Paul, Minn. 55109. It also describes in detail the complete 1966 Ryan line.



GOLFMASER

DESIGNED for TODAY'S GOLF CAR
Extra Electrolyte Capacity
Combination Terminals
Ask about our Recase Program

EAST PENN MANUFACTURING CO., Inc.
Lyons Station 19536, Pa.

For more information circle number 211 on card

IRRIGATION Continued from page 110

urally there must be water under pressure and to obtain this we installed a small 75 GPM pump. It maintains approximately 60 PSI on the line at all times. This is adequate for almost any quick coupler operation and it also keeps the lines full so that when a large pump is turned on, the sprinklers will operate immediately.

One of the newest items on our course is a complete short wave radio system. I could talk from now on of the many uses that these radios have. Our system consists of a base station which has a range of many miles and four walkie-talkies which have a range of approximately 1½ miles. The base station is in the maintenance shop where our shop mechanic stays. The irrigation system control room connects to the shop, so you can see it is convenient for the shop man to operate the irrigation if needed during the day.

At Quail Creek, I have Cohansey bent greens which average 8,000 square feet each. The high wind and temperatures in Oklahoma mean syringing greens as much as five times per day. As you know, syringing greens is very costly and a problem. The radio system we have makes this problem much easier.

Days when syringing is necessary our experienced men alternate in checking the greens. It is just a matter of the man riding around the course and calling on the walkie-talkie to the base station where the shop man turns on the sprinklers needed. With this method the schedule is controlled so that golfers on a green will not get wet.

We have another method of syringing but it is seldom used; one blast on the siren and all golfers know that the greens are about to be watered. We have a siren for each nine holes. It takes several minutes for the cycle to be completed, so by the time the last greens are watered in the cycle, some golfers have forgotten about the siren and the results are obvious.

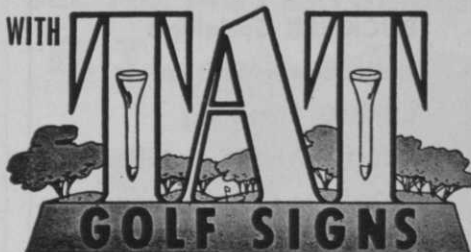
The radios are used by all of the crew when contact might be necessary with the shop.

You might say well and good but my

Continued on next page

PLAGUED BY VANDALISM?

It's hard to eliminate — but easy to cut its cost — compare and see how



MOST DURABLE, ATTRACTIVE and ECONOMICAL OF ALL GOLF SIGNS

4" x 6" **50¢**
SIZE

Large, 6"x8" golf signs, 75¢ ea.
Self-fastening aluminum stakes, 25¢
Self-fastening steel stakes, 30¢
Orders shipped within 24 hours.

OVER 70 INFORMATIVE & DIRECTIONAL SIGNS
NEW — FREE BROCHURE. ASK FOR IT.

TAT GOLF SIGNS

Box 1 DUNEDIN, FLORIDA

DIVOT-FIXERS — ORDER NOW!



Our nationally-known tool for fixing ball marks on greens is now available in highly polished nickel steel. No special imprinting on the nickel steel tools at this time, just standard imprinting as shown.

Prices nickel steel (FOB Des Moines)
100 — \$15.00
250 — 30.00
500 — 47.50
1000 — 90.00

Prices aluminum (FOB Des Moines)
100 — \$10.00
250 — 20.00
500 — 35.00
1000 — 65.00

Special imprinting \$10.00 extra per order.

10% of order in small individual envelopes with printed directions. Extra individual envelopes, one cent each.

Limit of 26 letters and spaces for upper line, 29 letters and spaces for lower line.

WOODSIDE GOLF & PARK SUPPLY CO.

Des Moines, Iowa 50313

For more information circle number 257 on card

NEW ENGLAND HEADQUARTERS

BUCKNER Sprinklers
JARI Power Scythes
LINDIG Shredders
MILORGANITE Fertilizer
MODERN Grinders
PAR AIDE Accessories
ROTO-WERL Spreaders
RYAN Turf Tools
TORO Mowing Outfits

THE Clapper Co.

1121 WASHINGTON STREET
WEST NEWTON 65, MASS.

For more information circle number 271 on card

Some of the
finest golf
turf includes
**HIGHLAND
COLONIAL
BENTGRASS**

For information write
HIGHLAND BENTGRASS COMMISSION
2121 Front Street N.E.
BENTGRASS Salem, Oregon 97303

For more information circle number 222 on card

Driving Range Operators and Distributors

We specialize in rebuilding golf balls with all new materials, and a new cured tough cover. Satisfaction guaranteed.

WAYNE GOLF BALL CO.
31117 Little Mack Ave.
Roseville, Michigan

For more information circle number 188 on card

IRRIGATION Continued from previous page

course can't afford the Quail Creek type of system, or we don't need that much irrigation. A system can be designed that will water anything anyway you need it watered. You can have anything from a single row down the middle of the fairway, to four rows down the fairway; from one large sprinkler placed out in the middle of the green, to several valves and sprinklers placed around each green. You can have whatever you can afford, but make sure it is properly designed and installed.

My contention is that you can't afford not to have a good irrigation system. As comparison, a good manual system that would cover the same area will cost approximately \$70,000 and the automatic system approximately \$100,000. The \$30,000 difference can be paid for in less than five years in labor costs alone. Our system at Quail Creek originally cost approximately \$100,000. This includes everything I have just described. •

HERB GRAFFIS Continued from page 24

ing a bad mess and in protecting as well as substantially aiding and directing borrowers is to get examining, budgeting, building and operating guidance established by a joint committee of men who know what these new club propositions involve . . . Representatives of the American Society of Golf Architects, the National Golf Foundation, the Golf Course Supts. Assn. and the PGA in a few sessions with FHA men could get the golf part of this loose use of money corrected to the benefit of all concerned. . . . What's going on now could explode with political damage that Sec. of Agriculture *Orville Freeman* and FHA Administrator *Howard Bertsch* certainly don't want and with embarrassment and material damage to golfers and golf business.

A year ago GOLFDOM relayed warnings about dangerous generosity in FHA loans and tried to get FHA or Department of Agriculture information on how, why and where these loans were studied, approved and handled but got the brush-

off at Washington . . . Small Business Administration loans to golf operations think of money as money, not as hay.

Masters Tournament this year again will limit admissions and asks golf writers to advise golf fans not to make trips to the Masters without buying tickets in advance . . . April 7, 8, 9 and 10 the 30th Masters will be played at the Augusta National Golf Club . . . **Bill English** of the Daily Oklahoman has compiled scoring records and statistics on the Masters that's a classic of tournament information . . . Average winning score in 29 Masters is 281.66 . . . Par of the Augusta National courses is 72 . . . Ringer score is 22-18-40 . . . Average age of the 29 champions is 32.03.

Roger A. Larson, who came into the Del Monte Properties Co. operation as construction superintendent for the Spyglass Hill GC 18 of the California golf associations and Del Monte Properties will stay on as superintendent of the course and supervising Pebble Beach and Del Monte courses . . . Spyglass Hill course will open this month . . . Larson got his BS degree in Horticulture at Iowa State, took graduate work at Wisconsin and is writing his thesis on minor element nutrition in turfgrass for his masters degree in soils, on a O.J. Noer Turf Foundation grant and spoke on that subject at the GCSA meeting . . . He was superintendent of Maple Bluff CC, Madison, Wis., before coming to Pebble Beach . . . Del Monte Press Bureau publicity on Larson shows how the superintendent is advancing as a

Continued on next page

Before you buy any sprayer SEE THE BIG PERFORMER



Root-Lowell's new **DURAPOWER***

You get better results from any sprayable material with Durapower*. Tops for all gun or boom applications. 14 wheel or skid mounted models. Tank sizes 50 to 300 gallons. All have super smooth Duracyl* Pumps available in 5 or 10 GPM models with working pressure to 400 lbs. p.s.i. Write today for full specifications by return airmail.

*Trademark

DURAPOWER

ROOT-LOWELL CORPORATION

Div. of Root-Lowell Mfg. Co.

Lowell, Michigan Dept. GD 616/TW 7-9212

For more information circle number 180 on card

PIER 39

415 · 781-2997
SAN FRANCISCO

STUDIO:

3186 OLD TUNNEL ROAD
415 · 939-6300

ROBERT MUIR GRAVES GOLF COURSE ARCHITECT

LANDSCAPE ARCHITECT • SITE PLANNER

LAFAYETTE,

CALIFORNIA

For more information circle number 228 on card

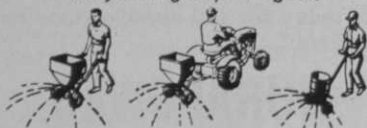
STRIPE-FREE!



Cyclone BROADCAST LAWN SPREADER

Unmatched in speed, accuracy. Uniform, feathered-edge spread eliminates stripes. Easy to use. For seeding, spreading granular and pelleted fertilizers, pesticides, soil conditioners, ice melters, etc. Broadcasts 6 up to 8 ft. swath. Saves time, work and materials. Write for free literature.

There's a Cyclone for Almost Every Seeding & Spreading Job.



THE CYCLONE SEEDER CO., INC.
Dept. 60, Urbana, Indiana 46990

For more information circle number 192 on card

HERB GRAFFIS

Continued from preceding page

recognized asset of a golf operation . . . One of the many subjects informally discussed at Kansas City was value of hiring a construction superintendent who will stay on after the course is completed . . . Anybody who doesn't do that is throwing away thousands of dollars and at least a couple of years, experienced men concluded.

Burt Musser as winner of the USGA Green Section award for "distinguished service to golf through work with turf-grasses" was cheered by superintendents all over the land . . . Musser, retired professor of agronomy at Penn State, edited and wrote by far the greater part of the Green Section's book *Turf Management*, the standard treatise on golf course operation . . . He developed Penncross bent, Pennlawn fescue and Penngift crown vetch . . . He long has been a leader in the training of superintendents . . . During World War II the government borrowed him for military turf work . . . He has been a very valuable and helpful writer for *GOLF-DOM* and other publications.

Ed Famula now pro at Warrenbrook CC, Warren township, N. J. . . . *Garry Nixon*, long a teammate of *Sam Snead* at Greenbrier and Boca Raton, and later pro at Philmont CC, Philadelphia, moves to Hominy Hill CC, Colt's Neck, N.J., as pro . . . *Bud Acton* now pro-manager at Alva (Okla.) G&CC . . . *Glen Dornie* GC at Linville, N.C., scheduled for opening in spring 1967 . . . *Ellis Maples* is architect . . . *Agnes Morton Cocke*,



INCREASE EARNINGS, SERVICE & SPACE WITH NEW VERTICAL BAG RACKS

Your members will like the extra convenience and care. Your pro shop profits from 40% more space these racks make available. Double unit shown holds 16 bags, size 2' x 4' x 6'-3" high, gives 12" x 12" space for bags. Single unit holds 8, size 1' x 4' x 6'-3" high. Sturdy steel. Bags set solid on tapered shelves.

- Wear and tear of golf bags is completely eliminated
- Damp bags dry faster—no mildew
- Provides a neat appearance
- Faster, easier storage
- Easy to install and add more as needed

Patented • SEND FOR FOLDER

THE A. G. STAFFORD CO.

2000 Allen Ave. S. E.
Box 287 • Canton, Ohio
A. C. 216 - 453-8431

For more information circle number 146 on card

is four times Carolinas' women amateur champion is president of the company building the course.

John Cafone, pro at Manasquan River GC, Brielle, N.J., pro on Queen of Bermuda 13-day Caribbean cruise . . . Massachusetts GA 75 member clubs working against politicians' proposal to put 20 per cent state tax on club dues and initiation fees . . . Federal 20 per cent tax was repealed January 1 . . . MGA stresses that club membership is not limited to the wealthy and already is subjected to such taxes and other discriminatory expenses that the number of private clubs in the state has dropped 20 per cent since 1931.

Floyd Farley of Oklahoma City elected president, American Society of Golf Architects at the society's annual meeting, held at Carefree Inn, near Scottsdale, Ariz. . . Other officials elected by the association's membership of 30 are **Wm. F. Gordon**, Doylestown, Pa., vp, and **Ferdinant Garbin**, Export, Pa., secretary-treasurer. Design and construction from all viewpoints of artistry and economics were discussed . . . Maintenance problems got a lot of consideration . . . The puzzling problem of what qualifies an architect also was discussed by members of the group which has had 801 years experience in designing courses.

Al Biondi is building 18 as the Springbrook CC at Leeds, Me . . . Will open in June . . . Biondi, for past nine years pro at Augusta (Me.) CC and for past six years president Maine PGA, is owner of First Tee indoor golf range. •

For wearing on the green



At Leading Pro Shops

Golf fashions by Kunik Kasuals, famous for comfortable styling, precision tailoring and fine fabrics. For him: Slacks, Bermudas, Tommy Bolt Sport Coats, Knit Shirts, Velours. For her: the newest in "Koorinated Sets" plus Bermudas, Kulottes, Blouses, Knit Shirts, Velours. *Free catalog for pros only.*

KUNIK KASUALS, Inc.
6818 Ventnor Ave. • Ventnor City, N.J.

For more information circle number 193 on card

Specialists in Golf Course Construction Since 1924!

GOLF COURSE CONSTRUCTION BY CONTRACT

For further information, write or call

MADDOX

CONSTRUCTION COMPANY
GOLF COURSE BUILDERS

Mailing address P.O. Box 66, St. Charles, Ill.

BATAVIA, ILL.

• 879-3843

DANVILLE, ILL.

• 584-0315 & 584-6641

• 442-2411

For more information circle number 175 on card



These alert looking men formed the student body of a recent service school sponsored by the Harley-Davidson Motor Company, one of several such schools conducted annually by the Milwaukee, Wis., organization. A permanent part of Harley-Davidson's factory service department, the school was inaugurated in 1914 and is internationally known, having been attended by mechanics and dealers from every state in the union and many from Asia, Europe, Africa and South America. The participants all affiliated with Harley-Davidson dealerships, are trained in the company's latest service techniques. Attendance is limited to 24 students for a training course with five skilled technicians serving as instructors. The students above graduated "magneto cu laude."

USED GOLF BALLS GRADED FOR RANGE USE

"Select" quality Range ball, assorted run of used balls, NO CUTS, refinished white, striped red or black . . . 2 Range \$2.40/doz.

Heavy club marked to very slight pin hole, refinished white. Special quality ball, and a real buy for the money. Red striped only. 3 Range — \$1.75/doz.

Above Range grades may be purchased in all HIGH COMPRESSION. Adding 20¢ per doz.

Slight cuts and heavy club marks, factory refinished white, striped in black. 4 Range — \$1.45 per doz.

Fairly heavy and light cuts, factory refinished and striped in black. A good "FILL-IN" ball. 5 Range — \$1.00 per doz.

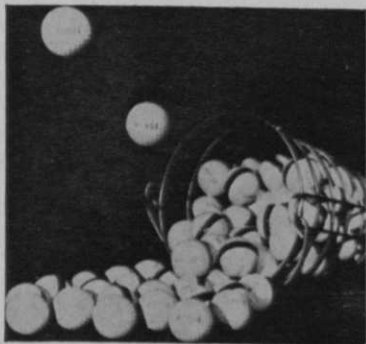
GOLF BALLS FOR DRIVING RANGE. Range grade prices per dozen are based on a minimum order of 24 doz.

Items listed are priced at wholesale and are subject only to our usual cash discount.

Largest selection rewashed used balls available for resale in pro shop.

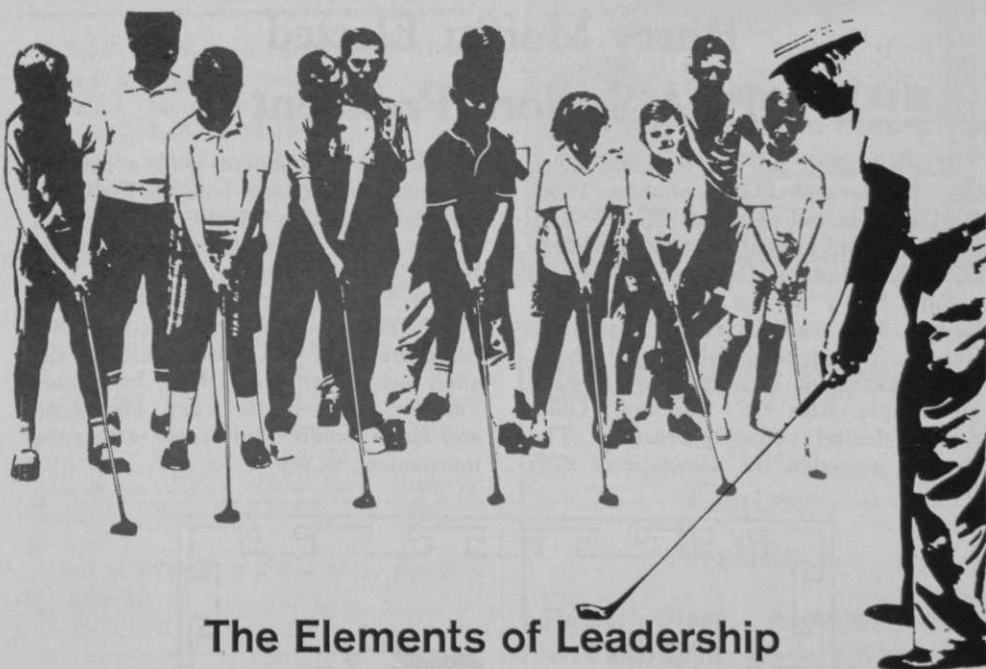
COUNTRY CLUB GOLF SHOP
2937 BROADWAY • RIVIERA BEACH, FLORIDA

We will pay freight on all orders paid in advance.



All low compression tough cover including such names as Pinnacle, Wilson Autograph Balls. Perfect shape finished white, striped red, with Range stamped on either pole. Order as #1ps — PRICE \$2.95/doz.

For more information circle number 145 on card



The Elements of Leadership



GOLF Magazine, the world's largest selling golf publication, takes a strong position with regard to the future of the game and its players. GOLF is the only publication of its kind with a continuing program of junior instruction, directed by its Staff Director of Junior Instruction, Bobby Nichols.

GOLF's regular series of reports by Maurie Luxford, well-known authority on junior athletics, offers blueprints and guide lines for successful junior golf program on a local level.



GOLF offered then-Senator Hubert H. Humphrey, Chairman of the Senate Sub-Committee on Reorganization and Internal Organizations, an opportunity to express his views in support of GOLF's call for a National Junior Golf Program. Vice President Humphrey's article was inserted in the Congressional Record, and thousands of reprints were distributed by interested golf industry leaders.

GOLF intends to continue this forward-looking program designed to help golf move ahead on a solid platform of achievement for the junior golfer. Such are the responsibilities—and the opportunities—that go with leadership.

GOLF MAGAZINE

325,000 circulation, More than 800,000 readers
800 Second Ave., New York, N. Y.

Harry Moffitt Elected PGA Seniors' President

Harry Moffitt, pro at Heather Downs CC, Toledo and PGA president 1950-1951 was elected president PGA Seniors at the veterans annual meeting, held Feb. 22 at PGA National course clubhouse.

Paul Erath of the Champions GC, Bolivar, Pa., was elected first vp; John Gaucas, Van Schaick Isle CC, Cohoes, N. Y., was made second vp and Denny McGonagle, Elks CC, Hamilton, Ohio, was re-elected secretary-treasurer. The election preceded the association's 27th

and largest tournament with a field of 428, with prize money being \$35,000 and the winner getting \$3,000, the Teacher's trophy and a trip to Britain to play the British senior champion.

The Senior's banquet, held at Palm Beach Towers, also was its largest. Retiring president Cliff Good conducted the affair briskly with brief talks by Ronald Teacher, Paul Erath, Cary Middlecoff and Herb Graffis. Middlecoff was at the tournament to test it for TV.

**Good Score ...
but not on
Your Floors!**

Don't let spikes mark up your floors. Install Golftile, the 1/2 inch thick rubber tile that never dents or scratches. In black or marbelized colors. Get a free sample! See how the interlocking design makes installation easy, without mastic or cement. See how Golftile saves maintenance and makes floors better looking. Write to Mitchell Rubber Products, Div. of Amerco, Inc., 2130 San Fernando Road, Los Angeles, California 90065.



Interlocking GOLFTILE by Mitchell

For more information circle number 238 on card