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and additions opened for play in 1957 total 76, courses under construction total 340 and better than 700 courses are in some stage of planning.

Those companies which are benefitting directly from the golf market's growth will further aid in meeting the heavy demand for the Foundation's materials, services and field assistance by taking a full membership now.

Complete information can be obtained from the National Golf Foundation, 407 South Dearborn St., Chicago 5, Ill., or by contacting any of the following members of the membership committee: Chairman Cowen, Bill Kaiser, Hillerich & Bradsby Co.; G. L. "Plug" Osborne, Wilson Sporting Goods Co.; George McCarthy, U. S. Rubber Co.; and Dan Sheehan, Burke Golf Co.

Swinging Around Golf

(Continued from page 22)

Anonymous assistant said he had to work 11 hours a day, half hour for lunch, six days a week . . . His salary is about \$12 a week and he gets 50 per cent of his charges for lessons.

Howard L. Hall, jr. named mgr., Elcona CC, Elkhart, Ind., construction of which is expected to be completed this fall . . . James Wolfe now mgr., Fort Dodge (Ia.) CC . . . Lester Lynk now managing Fairfield (Ia.) CC.

J. Fred Smith, veteran of club management who recently resigned as mgr., Hartford (Conn.) GC, has been succeeded at the Hartford club by Theodore J. Vignaux . . . Jack Smith to be pro at new Riverbend CC, Houston, Tex. . . . More than 150 events are planned and conducted each year by Texas sectional golf organizations . . . Ted Huffman now pro at Sunningdale CC, Toledo dist.

Francis Gallett, Blue Mound CC pro. in 15 minute weekly program over Milwaukee television station and is doing sparkling job of instruction and showmanship . . . Mike Pavela moves from Washington County CC, Washington, Pa., to Nemaocolin CC, Beallsville, Pa., as pro and was succeeded at Washington County by his brother, John, who had been his asst. Willard (Bud) Gaskill left Nemaocolin to go as pro at University of Pittsburgh course.

Congratulations to Midwest Golf Course Supts. Assn. on 10th anniversary of its monthly bulletin, The Bull Sheet . . . Norman Johnson, now supt. at CC of Florida, was its first editor, then Don Strand, Westmoreland supt. took over, and now Bill Stuppel, Exmoor supt., maintains the lively, useful tone of the publication.

Claude A. Hastings retiring from Wilson Sporting Goods Co. . . . Migosh, and we've been thinking that Walking Stick was about 25 or maybe 26! . . . He certainly has been a boy to sell golf balls and apparel through

pro shop distribution . . . He will make headquarters at his home, Ipswich Rd., RFD 1, Topsfield, Mass.

Roger Rubendall and Dave Forbes, Beta Theta Pi fraternity roommates for three years and senior co-captains of University of Wisconsin golf team, are sons of pros . . . Dad Rubendall is in his 27th year as pro at Freeport (Ill.) CC and Dad James Forbes has been at Monroe (Wis.) CC as pro for the 28 years since he arrived from Scotland . . . The two sons led Wisconsin to its first Wisconsin conference championship in the 37 years of the event . . . Championship was played on great course of University of Iowa . . . Robert Bruce Harris designed course of the \$450,000 golf plant at Iowa City . . . Greens are of Ralph Bond's Old Orchard c-52 stolons.

First class job the Club Managers Assn. of America is doing with its monthly Newsletter which tells what's going on in the organization . . . CMAA Pres. Richard E. Daley of Army and Navy Club, Washington and CMAA counsel Walter Slowinski have been touring, explaining club tax technicalities to association chapters . . . They were at Cincinnati at Conference of Ohio Valley group and at Evanston (Ill.) CC with Chicago district managers and club presidents.

Thomas McGuire, pres., Brookwood CC, (Chicago dist.), at press lunch in Chicago's Illinois Athletic Club, presents plans of \$500,000 clubhouse now under construction to replace clubhouse burned last year . . . Frank Eck, Associated Press News features sports editor, does widely used piece on Harry Obitz, Shawnee (Pa.) CC pro, developing club pro stars . . . Compares Obitz training with Claude Harmon's schooling of tournament stars . . . At present 10 of Harry's former assistants are in master pro jobs: Jack Ryan at St. Augustine, Fla., in winter and Buffalo CC in summer; Howard Capps at Desert Inn, Las Vegas; John Bove at Ponkapoag CC, Milton, Mass.; Carl Watkins at Whiteface, Lake Placid, N. Y.; Frank Minch, jr., at Del Paso CC, Sacramento; Ed Nowak at Bakersfield, Calif.; Jarry Heller at Tamiment CC, Bushkill, N. Y.; Stan Dudas at North Hills, Philadelphia; Al Nelson at Whitmere, Philadelphia and Milt Ross at Denver. John Orlick, another Obitz protege runs golf ranges at Detroit and Miami.

Rancho Los Coyotes CC, with 27 holes designed by Bill Bell on \$40,000,000 development at Buena Park, Calif., has 200 homes under construction adjoining course . . . The MacGregor Co. Tourney Club party July 16 at Van Cleve Hotel, Dayton, O., the evening before PGA championship started brought the unique annual party back to the place where it began in 1945 as a feature of PGA championships.

James Gilmore Harrison, Turtle Creek, Pa., has designed 18-hole course for Hidden Valley CC, Pottsville, Pa., and 18 for Tannenhauf GC, Alliance, O. . . . Jim is preparing plans for 3 more new courses soon to be announced . . . Ed Mattson, for 10 years pro at Hopkinsville (Ky.) G&CC now is pro-supt. at Fernan-

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dina Beach (Fla.) GC . . . New course was opened May 29 on beautiful site near shore . . . Ed started at Highland Park (Mich.) GC where he was for 11 years, then was at Bob o'Link, Detroit for 4 years, Lenawee at Adrian, Mich., for 2 years and after army service was at Koshkonong Mounds GC, Ft. Atkinson, Wis., Hopkinsville, Ky., and Fort Campbell (Ky.) Officers' GC.

Robert S. Tosh, asst. supt., Wallingford (Conn.) CC and son of Dave Tosh, veteran pro-supt., married to Miss Helen Christopher in Brooklyn, June 15 . . . Victor H. DeBaeke, owner of Beverly Hills GC, Warren, Mich., has bought 158 acre site near Romeo, Mich., and will build new 18-hole course . . . Hiram C. Brown is supt. in charge of construction . . . The job that Billy Sixty did in putting together golf material for Milwaukee Journal Men's and Recreation Section, recently was one that delighted readers, circulation dept. and the newspaper advertising dept.

New 9 at Sea View CC, Atlantic City, N. J. opened . . . Supt. Warren Bidwell seeded fairways with 50-50 mixture of Kentucky 31 and Merion Blue . . . Greens are C-7 Co-hansey and tees are straight Merion . . . K31 cuts clean when used as Bidwell uses it but doesn't do that in other combinations says the eminent globe-trotting authority, O. J. Noer.

Frank Rodia is pro, Don Rodvolt is supt. and Fred Mahue is mgr. at new south course at Torrey Pines opened with exhibition by Olin Dutra, Paul Runyon, Ralph Guldahl and Don Collett of the Navy . . . George A. Pattison, jr., has designed and is building an 18-hole Par 3 course at Hidden Valley, between Boca Raton and Delray, Fla., for Cave Realty Co.

Eldorado (Ks.) CC team of pres., supt., green chmn. and pro, won from 21 other 4-men teams in the 9th annual Heart of America GCSA 4-Men tournament . . . El Dorado score at Hillcrest CC, KC, Mo., was 289 . . . Ray Goodell was low pro with 67 and John Link with 77 led supts. . . H. J. (Bud) Elmer, supt., Indian Hills CC, KC, Mo., in Heart of America Turf Bulletin tells thrilling story of being in tornado that took 38 lives . . . Home of Elmer's asst., Paul Beer, was damaged . . . Max Beer, supt., Oakwood CC, was on edge of the tornado.

Pinecrest CC, Annandale, Va., 18-hole, Par 3 course opened in May . . . Fairways and tees planted in summer of 1956 to W&G Ugandagrass . . . Greens seeded to Colonial bent to get into play quicker . . . lots of sand and sawdust used in greens . . . Fertilizing with Nitro-Form, 10-6-4 and ammonium sulphate . . . Richard Stedman is pro-supt. and gen.-mgr.

Carl Anderson, golf architect of Miami, sure is high on Aruba, an island in Caribbean . . . It has two 9-hole courses, mainly for oil company employees in this West Indies possession of the Netherlands . . . Courses beginning to get play from tourists . . . Anderson is re-modelling Aruba GC course . . . He also is putting in 18 for Venezuelan government at

(Continued on page 82)

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What You Can Do to Minimize Winterkill

O. J. NOER is preparing a program for clubs confronted by conditions Neipp describes in his letter (see box).

Noer points out that players on the 9-hole courses now expect conditions almost equal to those at the famous 18-hole courses where the budgets are big.

On the winter kill problem he commented during a recent Canadian trip:

"Some clubs in Montreal fared badly this year with so-called winterkill. Loss was mostly in parts of greens where there was no heat — exclusively *poa annua*. Kanawaki and Royal Montreal came through good because they have good drainage and good bent cover.

"The problem is not one of getting a fertilizer in the spring to bring the grass back; it is one of eliminating the underlying causes. Good surface and under-drainage comes first; then use of a good grass, such as C-19 Congressional or Washington, is important because both resist snow mold. Late in the fall apply fungicide and again in the spring.

"St. Charles in Winnipeg never loses grass since it switched to Washington many years ago. This club does well with Seaside despite its susceptibility to snow mold."

J. R. Watson, chief agronomist of the Toro Mfg. Co., who has made a major project of winterkill studies for several years, outlined a program that gives the answers to the problem in Duluth.—Editor

By JAMES R. WATSON

Each year in the northern U. S. and Canada, much golf course turf is destroyed by so-called winterkill. The loss of turf on greens is by far more serious than that on tees and fairways. The loss on the two latter areas should be minimized but, in comparison, the loss of turf on these areas does not interfere with play to the extent that it does on greens. Too, the investment in greens is much greater and it is more difficult to restore greens to satisfactory playing conditions than tees and fairways.

Causes of Winterkill

Winterkill results from several factors operating alone and in combination. The major factors which influence winterkill may be listed as desiccation, thatch and mat, and snowmold. Heaving which results from alternate freezing and thawing causes some winterkill, particularly of young plants.

Desiccation is a physiological phenomenon essentially identical to wilt. It results from the inability of the grass plant to absorb sufficient water to offset that lost by transpiration. Desiccation occurs most often in late winter and early spring when the soil is still frozen and when atmospheric temperatures are sufficiently high to stimulate additional metabolic (growth) activity (beyond that carried on by the dormant turf).

What Prompted This Article

A recent letter from J. C. Neipp of the Duluth Automobile Club, Pike Lake, Minn., called for a lot of help.

The Duluth Automobile Club is the only club in the world with an 87-acre country club on a lake with 500 ft. of beach, a 9-hole course, largest flower gardens in the city, tennis courts and other recreational facilities. The golf fee to the club members is 60 cents per 9 holes.

Mr. Neipp's letter:

I believe there is a real need for a complete operation to insure less winterkill and quicker recovery of greens affected. We, up North, suffer from heavy snow and alternate freezing and thawing conditions in spring. I believe Golfdom can accomplish a real service if you can outline a complete system of preparing greens in the Fall and a doctoring system in Spring to restore greens with serious winter kill.

Up North our springs are late and very cool. We need, I believe, a strong liquid fertilizers to quickly restore the winter damage. I say liquid, because we have so much wind in spring that dry fertilizers (except Milorganite) can't be spread.

I hope someone can give us a complete schedule for better greens control.

Somewhere, someone must come up with an outline to follow that will give us better winter protection.

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Three factors, absence of snow cover, wind movement and temperatures in excess of 32 degs. (approximately), are conducive to desiccation if the soil is partially or completely frozen. The greater the wind movement and the higher the temperature, the more critical the situation becomes. For these reasons, high, exposed areas usually suffer greatest damage.

Thatch and mat (organic accumulation of undecomposed and partially decomposed leaves, stems and roots) contributes to winterkill in a more or less indirect manner. Excessive thatch and mat tends to weaken the plant by reducing root development. Thatch harbors disease organisms and, because of its somewhat impervious nature, reduces the effectiveness of fungicides.

Thatch and its related problems are particularly significant insofar as winterkill is concerned. First, in climatic areas where winterkill is most serious, thatch and mat tend to build up excessively. The degree of natural accumulation is a function of temperature and moisture.

The prevailing climate — cool temperatures, short growing seasons and sufficient moisture to support abundant vegetative growth — of the northern areas is more

conducive to thatch accumulation than to decomposition. Secondly, the heavy thatch and mat accumulations prevent effective control of snowmold, an ever present problem in these areas.

Much basic research is needed on the control of thatch on golf greens.

Snowmold, in addition to causing varying degrees of direct damage to turfgrass, also contributes indirectly to winterkill. Turf attacked by this fungus disease is weakened materially; hence, more subject to destruction by desiccation. For a detailed discussion of snowmold, see article entitled "Snowmold Control" in October, 1956, "Golfdom," and the September-October, 1956, issue of "The Golf Course Reporter."

Heaving resulting from alternate freezing and thawing exposes the root system of plants and hence causes them to be killed, either directly when severe temperatures changes occur, or indirectly because of lack of contact with soil moisture.

Next Month — Watson discusses protection against winterkill

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Turf Meetings

Aug. 6 — U. S. Dept of Agriculture Turf Field Day, Beltsville, Md.

8 — Rutgers Field Day, Rutgers U., New Brunswick, N. J.

15 - 16 — 26th GCS Field Day, University of Rhode Island, Kingston.

Sept. 10 — St. Louis Field Day, Link's Nursery, Route 1, Conway Rd., Clayton, Mo.

16 - 17 — Midwest Regional Turf Foundation Field Days, Purdue U., Lafayette, Ind.

Oct. 16 - 18 — Kansas State College Turf-grass Conference, Manhattan.

Play Amputee Tournament in Toledo, Aug. 16-17

Amateur amputee golfers will play their annual tournament at Heather Downs CC, Toledo, O., Aug. 16-17. Entrants will compete for titles in several divisions with Robert G. Sandler, who won the championship flight in 1956, being back to defend his laurels. Sandler plays near-par golf. John Cipriani of Buffalo and George A. Campbell, Belmont, Mass., each of whom have won two amputee championships, also are expected to compete.

Two new divisions have been added to the tournament for 1957. They are the Girls' Junior division and a Sub-teen section for boys.

Shaw Sells in Arizona

Alva Shaw, owner of the Arizona Toro Co., Phoenix, has sold his company to Bill Norton. Arizona supts. met the new owner and his wife at the annual dinner which Shaw, the supts. and their wives attended. There were 51 present at this merry fiesta.

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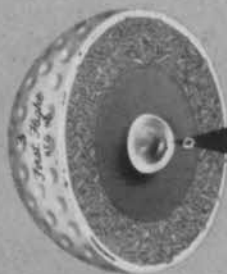
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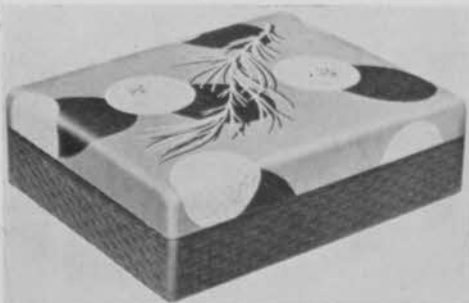
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Gutz Elected Merchandising VP at True Temper

Raymond T. Gutz, since 1949 merchandising mgr. of True Temper Corp., has been elected to the newly-created office of vp — merchandising. A business administration graduate of the University of Wisconsin, Gutz formerly was a merchandising executive with Montgomery Ward & Co. Widely known in hardware and outdoor recreation circles, Gutz is a member of the Woods and Waters Club, Cleveland Advertising Club and other professional organizations.



True Temper shareholders have approved a two-for-one split of the company's common shares, effective July 30. There were, as of July 23, a total of 527,651 shares of common stock outstanding.

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Literature on request.

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Pro-Lefty Tournament

The forgotten man of golf, tennis, bowling and perhaps a few other sports was remembered in July when Northern Calif. PGA held a Pro-Lefty tournament. Forty-one southpaws turned out for the event along with 12 pros. Bud Ward and his left handed teammate, Lincoln Wilson, won the best ball with a 63 with Ward contributing an individual 66 to lead the pro scoring.

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Smith Girls to Make European Tour

A famous golfing duo, no relation to Smith brothers, nor even to one another — Wiffi Smith (left) and Marilyn Smith, prepare to



leave for Europe Aug. 14, to give golf demonstrations to wives and children of air force personnel. Wiffi, of St. Clair, Mich., like Marilyn a member of Spalding consultant staff, is former British and French amateur champion. Marilyn, from Wichita, Kans., is one of leading women professional golfers in the United States.

Billane Succeeds Crawford As Dunlop President

J. Michael Billane has assumed the office of president and treasurer of the Dunlop Tire and Rubber Corp., Buffalo, succeeding Glenn H. Crawford, who has retired because of health reasons.

Billane joined Dunlop in England in 1928 in the Foreign Department and went to India in a sales capacity in 1934. From 1934 to 1940, Billane was office mgr., Calcutta, dist. mgr., Burma and dist. mgr. South India.

He served in the Royal Air Force in the Middle East and Western Desert from 1941 to 1946 on Fighter Control and Air Staff Operations duties, emerging with the rank of Squadron Leader.

After his war service, Billane became sales mgr. In 1947 he returned to the head office in London as mgr. commercial relations dept., Tire Export, in 1948 and overseas mgr. from 1949 to May, 1957.



J. M. Billane