

JANUARY/FEBRUARY 1984

Greenkeeper



The Official Magazine of S.I.G.G.A. & E.I.G.G.A.



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United into the New Year

The year begins with positive news for our industry's future as the much-heralded meeting between the three greenkeeping associations—SIGGA, EIGGA and the BGGA—is to take place at Hags Castle Golf Club on January 25.

The other good news is that SIGGA is participating in *Golf Course '84* at Trinity Hall, Cambridge from April 12-15.

With the *Golf Course '84* programme virtually finalised, it is a tribute to all concerned that so many excellent speakers will be assembling at Cambridge.

Representing the participating associations are some very well-known names, including Donald Harradine; Geoffrey Cornish, whose book *The Golf Course* was published last year; Dr James Watson of TORO and the USGA Greens Section; Dr Bill Adams of Aberystwyth University; Cabell Robinson of Robert Trent Jones SA; Tony Gray or George O'Grady from the PGA European Tour; James Prusa, director of education for the GCSAA; Stanley J. Zontek of the USGA Greens Section; Dr Peter Hayes of the STRI, and Jim Arthur, as well as members of EIGGA and SIGGA.

Bruce Critchley, a member of BBC TV's golf commentary team and a former international, is the guest speaker at Saturday evening's formal dinner.

The education classes—on Irrigation (Thursday am), run by the BTIA, Cost Saving In Machinery Maintenance (Friday am) by David Holford of Myerscough College and Disease In Turf (Saturday am) by Roy Woolhouse of the STRI—are to be followed up by a self-assessment test on Sunday morning.

Some of the associations will be holding independent meetings at Trinity Hall. EIGGA's AGM is on Sunday afternoon (April 15.)

There will be a Stableford golf tournament on Monday, April 16 at the Gog Magog Golf Club, with associations organising their own competitions. There is also to be an inter-association match for the *Greenkeeper Trophy*—each competing association is to nominate a team of three.

Only a few *Golf Course '84* places remain, so if you have not booked, do so immediately as bookings are being taken on a first-come, first-served basis and there are only 120 places in all. For those that have already booked, a full conference package will be sent out during February together with, where appropriate, final accounts, which must be settled by February 29.

Golf Course '84 is set to be a tremendous success and with a programme of such high quality already scheduled, the weekend offers tremendous value for money.

Golf Course '84

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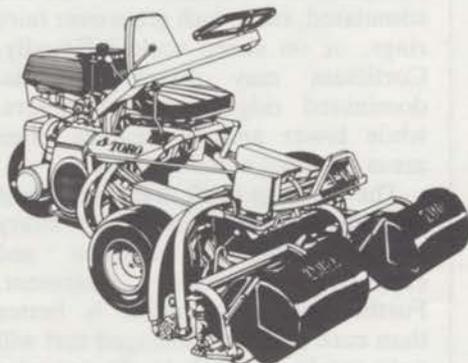
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Out of the mouths...

By Jim Arthur

On an increasing number of advisory visits, it is arranged for most, if not all, the greenkeeping staff to walk the course with me. This produces what I hope is a mutually stimulating discussion—not only with the older members of the staff who would not normally get the opportunity to discuss greenkeeping problems with other than fellow greenkeepers, but with some who are beginners. They bring a refreshingly different approach to many problems and tend not to always accept many of the greenkeeping truisms you tend to take for granted.

One factor common to so many such encounters and possibly induced by college training is an obsession that all disease must be treated at once; that no pests can be tolerated without instant recourse to insecticides and that only total perfection is acceptable. In practice, it never works out like that. Greenkeeping has been described as a battle against annual meadow grass, which we never quite win!

All that discolours or disfigures fine turf is not of fungal origin. Admittedly, chronic attacks of *Fusarium* patch are a sure sign of some error in greenkeeping practice, but everyone suffers from the occasional unexpected attack. Last winter, even fairways were severely attacked, even if protected greens were not, due to the mild open 'growing' weather and high humidity late into the year. Few, if any, felt it necessary to treat the fairways and they soon recovered.

Of course, some greens are more prone than others to attack—eg because they are shaded or surrounded by undergrowth and warrant protective measure with systemic fungicides. Certainly, a sudden attack must be treated at once with a knock-down fungicide. But routine treatment on a massive scale as practised, particularly on the annual meadow grass dominated turf of some Canadian and Swedish courses, especially with mercurial fungicides in the past, has built up massive toxicity, which killed everything, including beneficial (thatch controlling) soil organisms.

I welcome *Corticium* (red thread disease) as an old friend and *never* feel

that it is necessary to treat it. It attacks only the fine grasses we want and is, therefore, a sign of quality! If the slight bleaching worries members, a light nitrogen dressing in season will soon get rid of it. Never apply fungicides—the cost cannot be justified anyway.

Fusarium is, of course, a disease with very variable symptoms—sometimes only small, non-aggressive spots and sometimes catastrophic and rapidly spreading deeply cut scars. This can be confusing, but as with grass identification (of which more anon) the student can safely dismiss all but a very few diseases as of no economic importance. In a lifetime of looking at turf, I have seen true dollar spot perhaps a dozen times. Most turns out to be either *Fusarium* or *Corticium*.

It is, of course, essential to avoid confusing other scars with those due to fungal disease. Petrol produces a characteristic browning of the grass, but the leaves are scorched, not broken down. Often you find a symmetrical series of evenly spread circular scars, known as 'spray bar disease', where the sprayer was stopped and herbicide dripped from the jets.

Fertiliser spillage burns and sheep scalds show characteristic stimulated growth around the scorched centre and just occasionally may be confused with *Ophiobolus* ring disease, but this is virtually always associated with liming of acid turf without phosphates being applied.

This, in passing, is a good example of the dangers of wrong deduction. Phosphates will quickly cure the problem, but create a worse one with the encouragement of annual meadow grass. What gives ring disease away usually is the presence of fine fescues and annual meadow grass and the invasion of weeds in the attacked areas.

Often two or more diseases attack the same green. For example, *Fusarium* often strikes first on the stimulated, more lush grass over fairy rings, or on sheep scalds! Equally, *Corticium* may attack *Agrostis*-dominated ridges and perimeters, while lower annual meadow grass areas go down with *Fusarium*.

The message is all that scars is not necessarily disease and not every disease demands intensive and expensive fungicidal treatment. Furthermore, prevention is better than cure and well-managed turf will only rarely succumb to disease of a level where treatment is essential.

In my book, greenkeeping should be devoted to encouraging fine

grasses to dominate—ie bents (*Agrostis*) and fescue, because only they give the quality of turf demanded by better golfers.

Not so long ago, I was accused of giving advice geared to producing conditions that only the best golfers demanded. It was not intended as a compliment, though I took it as such. If we do encourage the finer-textured perennial grasses, then not only will we get disease-resistant turf and better conditions for 365 days a year, but we will spend less money maintaining them.

Above all else, we must aim at built-in plant health. Fine turf is never killed under natural conditions by disease, though I have seen acres and acres of natural moorland bent turf tinged coral pink by widespread attacks of *Corticium* in a wet September, but this never affects the grass permanently.

While neither a disease nor a weed, the presence of moss seems always to arouse alarm in golfers' minds. They ignore many worse problems, even thatch, which force them on to temporary greens for weeks on end in winter.

A good tip is to look where the moss shows. It is nearly always on that part of the green subject to least traffic, such as behind a guarding bunker or at the rear on the side opposite to the next tee.

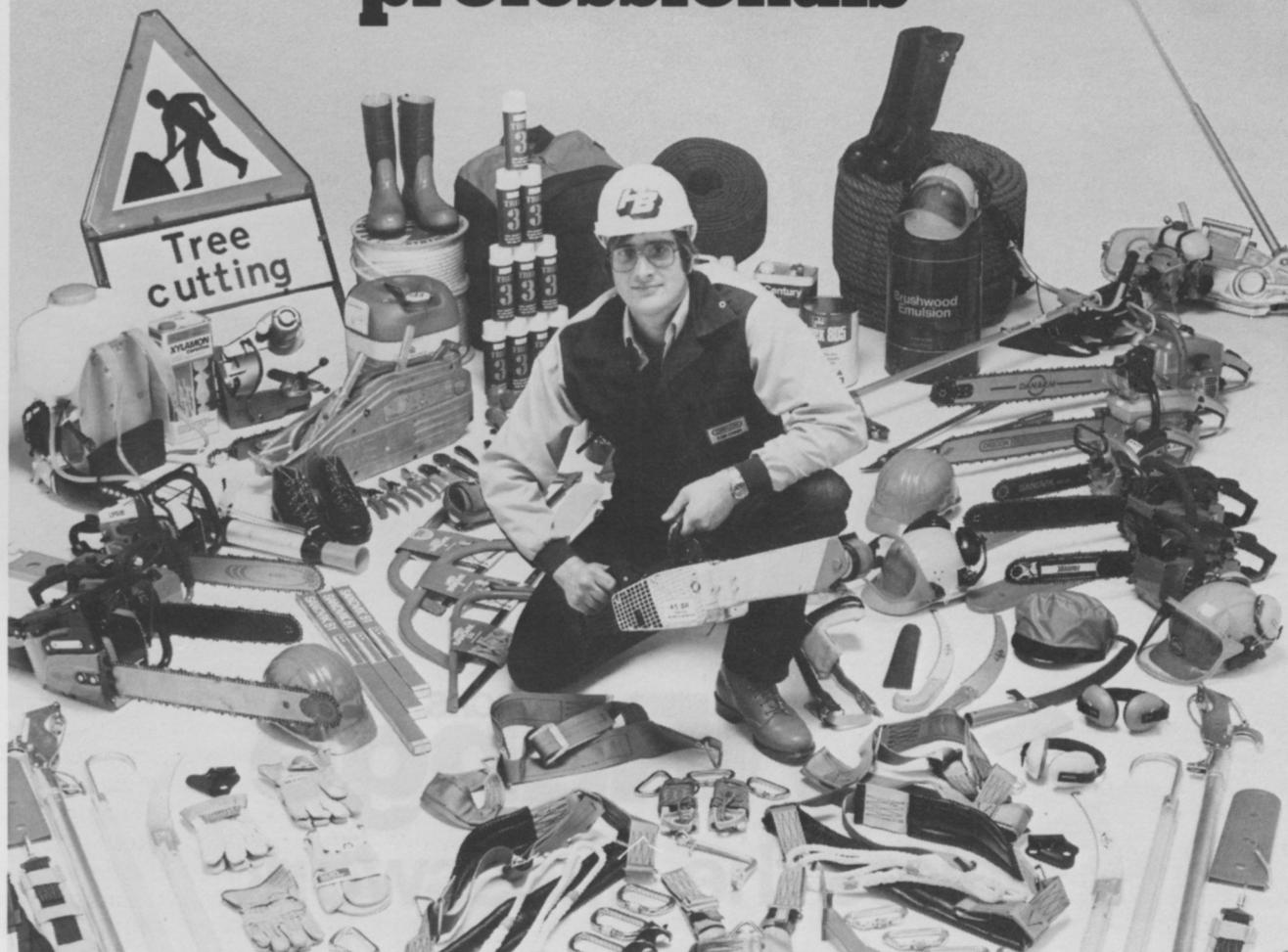
It is also never found in soft, lush, wet annual meadow grass turf, but on wiry perimeters and ridges. It is always a sign that soils are poor enough to support bents and fescues, but not rich enough to permit annual meadow grass to survive.

A touch of iron will blacken it and enable it to be teased out once growth starts, but a good, old-fashioned tip is to cut the hole in the mossy area and traffic soon scrubs it out!

Of course, really deeply entrenched moss, particularly of those species linked with waterlogged soils, needs to be tackled, but (as in so much of greenkeeping) basically by physically improving the soil. What is certainly a mistake is to severely scarify mossy areas in winter. There is no growth to aid recovery, so the moss returns and not the grass—and if annual meadow grass is present, then it comes back rather than the grasses we want.

Less and less do we hear of liming being recommended, just because the soil is acid. We *want* it to be acid and often the alternative to a bit of moss in winter is to have lush, worm-casted turf the rest of the year.

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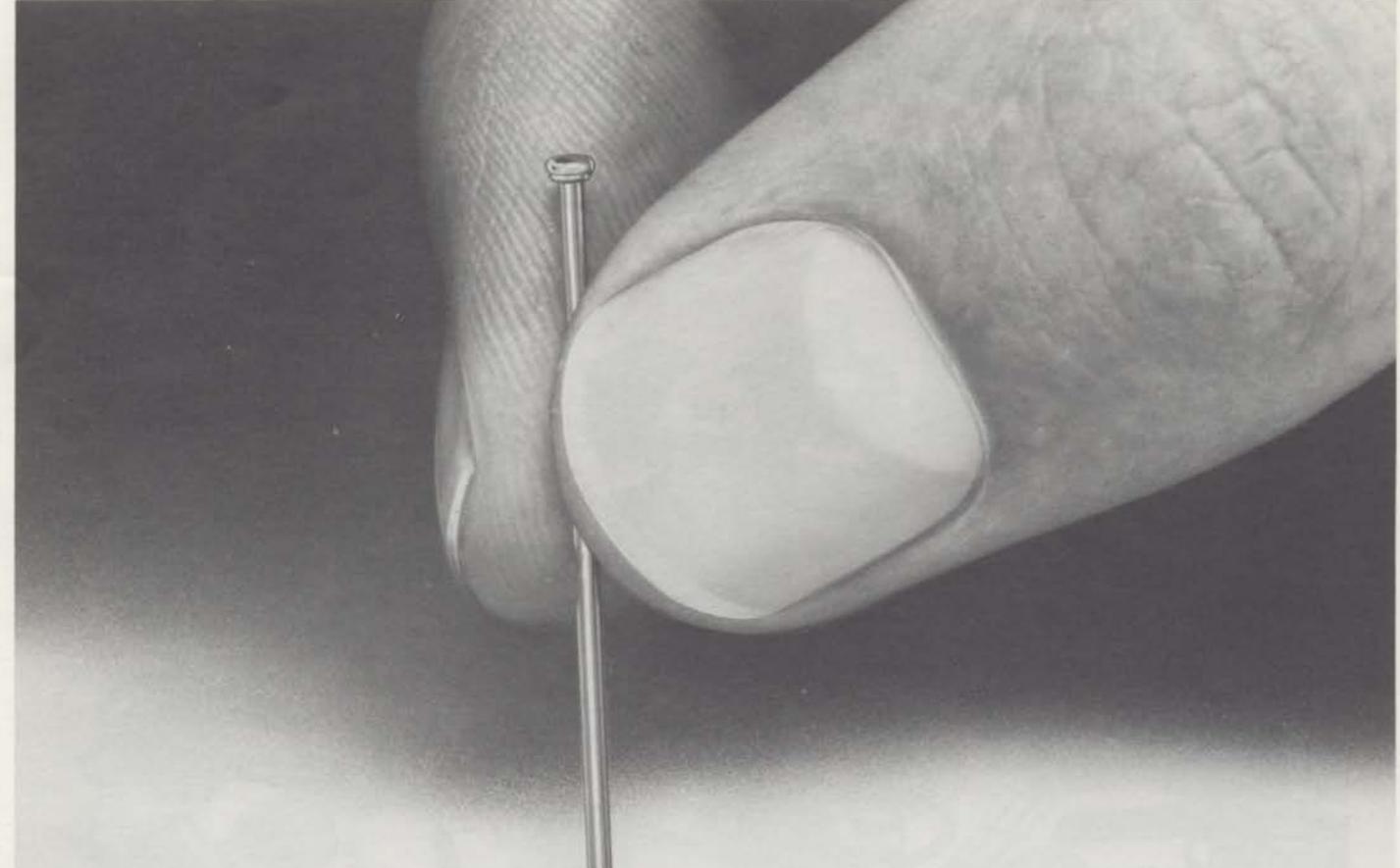


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A pristine jewel in Bavaria

The last issue carried a brief obituary to Frank Pennink of Cotton, Pennink, Steel & Partners. This article, which was to be included in November/December's *Greenkeeper*, is published here as a tribute to a man who dedicated a lifetime to golf.

THE Golf Club Margarethenhof-am-Tegernsee fits buoyantly into the foothills, almost astride the wide valley that carries the main autobahn between Munich and Salzburg. And so it lies in this glorious, hilly part of the Kingdom of Bavaria.

Several aspects of this new 18-hole course of just below 6,000 metres in length, par 71, make it very unusual. One or two factors could even make it unique. It sits up to 3,000 feet high and from the 1st fairway and 12th hole the serpentine Tegernsee lies mirror-like a few kilometres below.

Surrounded by dense woods, mostly fir and pine on all sides except downwards to Finsterwald (which translates as dense wood!), it will be a sporting course, not a mountain-goat course. Agreeably, you seem to descend more than ascend.

In finalising the two loops of nine holes—in fact, the 9th, 12th and 16th greens, as well as the home green, are near the clubhouse—I was faced with a number of *faits accomplis*—ie. holes that had been partly made, including three of the par threes, of which I approved thoroughly. I believe they had also been envisaged by my dear friend, von Limburger, a brilliant architect, who died a year or two ago and who had a slightly different terrain at his disposal compared with my 47 hectares.

This was no hindrance and the rest eventually fell into place, to my and my client's satisfaction, though there are a few problem holes—meaning those to which character must be given and, as yet, bereft of bold features. A small and large pond will solve this at the short 14th; tree planting and axis bunkering at the two short successive par four 11th and 12th holes, the siting of the former



In the making of Margarethenhof-am-Tegernsee, a Dutch foreman (left) added weight to the European experience of Jürgen Mokinski (centre) and Frank Pennink.

being a 'must' on account of its view over the Tegernsee.

Now, belatedly I come to the unusual items. My first visit was at the end of March when it had been dry and sunny for a week. On my arrival, 40 minutes from Munich Airport, there were up to 50cm of snow, as several holes were marked out. The following day, I was walking on green grass and on a good deal of mud.

On the first day of my July visit, the temperature was in the 90s, though there were rumours of impending thorns (it took me a long time to realise, until watching the BBC's *Breakfast Time*, that this was an abbreviation for thunderstorms!). Great progress in construction had been made in the past six weeks and several greens had already germinated and others seeded.

By mid-afternoon, it became very dark quite suddenly and soon it was almost pitch black. The heavens opened and hail stones the size of pigeon or bantam eggs hurtled to the ground, even denting the bodywork of the Mercedes-Benz in which, fortunately, we were surveying the scene in a remote part of the course.

I was with my client and the contractor and the conversation, above the almost deafening din, naturally concerned the damage to the newly sown greens and tees.

Much to my surprise, Jürgen Mokinski, in my opinion the leading golf course contractor in Germany, did not seem unduly depressed. I discovered why. He was fully insured against such an Act of God.

Within an hour, when the storm had abated with its legacy of a 10cm

carpet of hailstones overall, the temperature down about 50 degrees, he was on to his insurance claims man. The latter promised to come next morning and by 11 o'clock compensation was agreed.

What German efficiency! I wonder if our own golf course contractors have similar safeguards? Only my client's progress chart had been set back a week—or two—but there was plenty of warm weather yet to come.

The morning after the storm, Margarethenhof was at peace and the damage was examined in sunshine—four greens and two tees to be re-raked and re-sown, very little scouring and all germinated items virtually untouched.

It has been an absorbing project with all participants—the wood clearance firm, fairway cultivators, the cutters of the tough natural grass (becoming ever finer after each successive mowing), the drainage firm, the irrigation company and Mokinski, responsible for greens, tees and approaches—all cooperating and dovetailing perfectly, thanks largely to Paul Krings, nephew of the former president of the German Golf Union.

The committee is now responding to a perpetual application for membership. The two existing large Munich clubs are bursting at the seams and with the attraction of a beautiful clubhouse constructed from old farm buildings and barns, plus a 24-bedroomed dormy house (somewhat reminiscent of Royal Lytham, but in Bavarian style, of course), they will have no trouble whatsoever in collecting as many members as they wish.

Designers with a difference—by the editor...

A recent trip to North and South Carolina, centred at Pinehurst—The Golf Capital of The World—left me in awe of the work of Donald J. Ross, who sailed from his native Dornoch in 1898 to create Pinehurst's No 2, as well as over 500 other courses in the States.

Pinehurst's No 6 was my first introduction to the style of American architects George and Tom Fazio (George is the uncle of Tom). The firm began designing courses in the late 1950s and has since been involved in over 100 designs. Their credits include Jupiter Hills, Florida; Butler National, Illinois; The National, Toronto; the Champions Golf Club, Texas and the Congressional Country Club, Maryland.

The Fazio's have also served as consulting architects to the Masters at Augusta National and several US Open and PGA Championship venues. They believe that "a well-designed course should leave a pleasing impression of the total layout and not be remembered for just a few holes."

Wild Dunes—a resort complex located on the Isle of Palms, near Charleston, South Carolina—was next on the hectic itinerary.

Designed by Tom Fazio in 1979, the golf course finishes with two breathtaking holes that straddle sand dunes reminiscent of the Best of British courses. The final two holes occupy beachfront land valued at over \$25 million.

It's a tribute to Wild Dunes and Fazio that, in such a short space of time, the golf course occupied 37th slot in *Golf* magazine's recent *50 Greatest Courses In The World* listings. (The same poll recognised Muirfield as the world's number one, had Royal County Down at three, while Pinehurst's No 2 took ninth place and Royal Dornoch completed the top ten.)

Finally, it was some 20 miles south of Charleston to the beautiful island of Kiawah where another Tom Fazio creation—the Osprey Golf Club—is being built. The championship layout, scheduled for completion next year, encompasses four lakes, black water lagoons housing sleepy alligators and mile upon mile of marshland and maritime forest.

Two courses are already well-established on Kiawah. The first—Marsh Point—was designed by Gary Player and opened in 1976. The second—Turtle Point—was completed in 1981 and is a Jack Nicklaus design. The 15th on Turtle Point (pictured) is the first of three spectacular oceanside holes that provide not only stunning views, but a haven for the threatened Atlantic loggerhead sea turtles that nest along the shoreline.



THE computer hummed steadily, keeping two operators busy dispensing information to callers. "How about 10.30 on the number 2 course?" The operator confirmed the tee time. Apologetic, but helpful, another said: "I'm sorry, but one o'clock next Tuesday on number 6 is taken—2.30 is free if you want it."

At the Pinehurst Hotel and Country Club—known as The Golf Capital of The World—getting a starting time is important business. When some days 400 foursomes want a round, scheduling start times could present problems. That's why, with typical USA efficiency, Pinehurst uses a computer to arrange play on its six courses.

Times can be booked up to six months in advance, which is especially important to groups and conventions. Some 200,000 rounds of golf are played each year at Pinehurst and a seventh course is already beyond the planning stages.

Pinehurst and golf have been synonymous since the turn of the century when James Tufts of Boston began developing the area in the North Carolina Sandhills. Tufts soon realised that the climate and terrain were ideal for what was still a developing sport in America and he engaged Scot Donald Ross to design a golf course for hotel guests.

Ross spent 40 years at Pinehurst, designing four of the resort's six courses. Long before his death in 1948, he was acclaimed for his architectural genius. Today, dozens of his courses rank among the world's finest, including his masterpiece—Pinehurst's famed number 2, which was started in 1901 and eventually made an 18-hole course in 1937.

Up until 1934, the greens were sand. Conversion to Bermuda grass was completed in 1935. To keep pace with golf's progress, Ross constantly made improvements to the course. Major alterations were made in 1950, prior to a Ryder Cup match, and again in 1961.

Ellis Maples designed Pinehurst's number 5 course (built in 1961), while George and Tom Fazio created number 6, a highly acclaimed layout completed in 1979.

A large practice area by the clubhouse is believed to have been the first in America. It's said that, disturbed by members and guests practising on the courses, Ross had the area—referred to as Maniac Hill—built in the 1930s. Today, the pro's shop dispenses over 60,000 buckets of range balls a year.

Running such a vast operation

Continued on page 14...

Pinehurst—what a place!



No 1

Yardage: 6,158 men, 5,381 ladies **Par:** 70 men, 73 ladies
Architect: Donald Ross **Opened:** 1899 (original course)
Landscaping: tees and fairways—Bermuda, greens—bent mixture (mainly Pennncross)
Traps: 38 **Water hazards:** 3
Acreage: 72.4 **Average size of greens:** 5,900 square feet
Irrigation: automatic sprinklers
Competitive course record: 63 by Ed Famula in 1971

Today, the course bears little resemblance to that designed in 1898 and 1899 by Dr D. LeRoy Culver of New York. Donald Ross redesigned the no 1 course over a period of years with the aid of course superintendent Frank Maples. It is short, but very tight, tree-lined and often rolling.



The 5th hole on course no 1.

No 2

Yardage: 7,020 championship, 6,401 men, 5,934 ladies **Par:** 72 men, 74 ladies
Architect: Donald Ross **Opened:** 1901 (9 holes), 1937 (18 holes)
Landscaping: tees and fairways—Bermuda, greens—Bermuda
Traps: 83 **Water hazards:** 1
Acreage: 104 **Average size of greens:** 5,520 square feet
Irrigation: manual system, installed in 1933
Competitive course record: 62 by Gibby Gilbert and Tom Watson in 1973 and Hale Irwin in the 1977 Colgate Hall of Fame Golf Classic

Outstanding features include small, sloping greens, deep bunkers, loose, sandy soil and rough accented by eragrostis carunta or 'love grass'. Fairways are deceptively wide. Often described as one of the most difficult courses in the world from within 50 yards of the greens because of the sloping and undulating greens and fringe areas. This course hosts Pinehurst's annual array of major amateur, senior, junior and professional championships.



Through the trees to the 16th green.

requires a large number of staff. Currently, there are about 150 in the golf division, which includes over 80 engaged in golf-course maintenance.

Keeping six golf courses in shape is no mean task. Each morning at 6.30, six crews leave Pinehurst's massive golf-course maintenance area to face 108 greens and fairways; 324 tees; 347 bunkers; four practice putting greens; a driving range and teaching area and four acres surrounding the main clubhouse.

Wayne Maples has the enviable task of overseeing maintenance of the number 2 course—a favourite of Watson, Nicklaus, Palmer and Snead among many others. Maples has ten men to keep the course in tip-top condition.

Arnold Bruns is superintendent for courses 1 and 4. Lew Metts looks after 3 and 5 and Lee Dalton is in charge of no 6, which has a crew of eight men, while each of the others has six. *In addition*, there are teams for construction and cart-path maintenance. Three oversee irrigation and there are also four people to tend the numerous flower beds! "It's a unique set-up," Bruns said, "but it offers many interesting challenges. We have all the problems

of a typical US golf course multiplied by six."

Headquarters for the maintenance staff is a 27,000 square foot building housing administration, shop, chemical room, seed room, equipment, storage, welding and paint shops and spare-parts store. There is also a 2,400 square foot maintenance building for the number 6 course, which is located about three miles from the other courses.

"Everyone is enthusiastic and dedicated," Bruns said. "Each knows his job and carries it out." Pinehurst spends annually over £1m on salaries, fertiliser, fungicides, equipment and parts. "Our expenditure for sand alone is some \$18,000 (about £12,000)," Bruns added. Other expenditure includes over £180,000 for fertiliser, equipment, fungicides, herbicides and insecticides. Pinehurst uses about 450 flags and 500 bunker rakes a year.

In order to simplify the upkeep of six courses, a colour code is used for each. Flags, poles, benches, rubbish containers and ball washers are the same colour.

All greens—except for the number 2 course—are Penncross bent. Number 2 has Bermuda greens, but

may be changed to bent in the future. Fairways are common Bermuda, except on number 6, which uses 419 hybrid Bermuda.

Mike Sanders is Pinehurst's head professional. A PGA pro since 1971, he went to Pinehurst in 1980 from Moss Creek Plantation at Hilton Head Island, South Carolina.

Sanders is backed by four assistant pros; three full-time teaching pros; eight shop staff; three in the indoor teaching area; four in administration; three in the tournament office and three to oversee the practice area.

"In addition," Sanders said, "it takes a staff of 30 for starters, rangers, bag storage and locker room attendants. And they don't include the 20 who maintain and service our 450 golf carts."

The focal point of the clubhouse is a spacious golf shop, which holds a stock of \$300,000 (£200,000). The shop sells over 4,000 dozen golf balls a year.

Because of its tremendous facilities, golf schools and individual instruction are very popular. An indoor teaching centre is equipped with the latest electronic teaching and club-fitting devices.

Away from the golf courses, the

No 3

Yardage: 6,092 men, 5,261 ladies **Par:** 71 men, 72 ladies
Architect: Donald Ross **Opened:** 1907 (9 holes), 1910 (18 holes)
Landscaping: tees and fairways—Bermuda, greens—Penncross bent
Traps: 29 **Water hazards:** 2
Acreage: 84.6 **Average size of greens:** 5,040 square feet
Irrigation: automatic sprinklers
Competitive course record: 65 by Larry Nelson in 1973

One of two short layouts. Holes from the original course are now part of no 4 and no 5 courses. The current layout was completed in the early 1960s. The opening holes roll through hilly, forested terrain before opening into a more 'Scottish' scene. The course returns to the tree-lined setting for a panoramic finish. The par-three holes are almost uncharacteristic of the course—two of them measure over 200 yards each, while the tricky 9th, at 175 yards, plays to a small, sloping green.

No 4

Yardage: 6,890 championship, 6,371 men, 5,726 ladies **Par:** 72 men, 73 ladies
Architects: Donald Ross, Robert Trent Jones (1973 redesign), Rees Jones (1983 redesign) **Opened:** 1912 (6 holes opened for practice), 1914 (9 holes), 1919 (18 holes)
Landscaping: tees and fairways—Bermuda, greens—Penncross bent
Water holes: 2
Acreage: 78.2 **Average size of greens:** 6,000 square feet
Irrigation: automatic sprinklers
Competitive course record: 66 by Don Iverson in 1974

The course has undergone a number of alterations. Ross continually changed, added and subtracted holes. His final design was just more than 6,000 yards and similar in play to no 1 course. In 1973, Robert Trent Jones lengthened and toughened no 4 course for the World Open. Last year, Rees Jones made the course a "fairer test for the high handicappers, yet still a challenging course for the long hitters." Before, the greens were flat with 'hog-back' characteristics in which the ball simply rolled off. Now they have been enlarged from approximately 4,500 square feet to 6,000 square feet and are undulating with as many as three putting tiers.

No 5

Yardage: 6,827 championship, 6,355 men, 5,848 ladies **Par:** 72 men, 73 ladies
Architects: Ellis Maples, Robert Trent Jones (1974 redesign) **Opened:** 1961
Landscaping: tees and fairways—Bermuda, greens—Penncross bent
Traps: 55 **Water hazards:** 8
Acreage: 108.9 **Average size of greens:** 5,540 square feet
Irrigation: automatic sprinklers
Competitive course record: 67 by Gary McCord in 1975

Pinehurst had a no 5 course as early as 1928, although the layout was abandoned in 1935. The current course was the work of Ellis Maples, who took existing holes and added a new nine, making a second long and demanding course for Pinehurst (after no 2). Robert Trent Jones refined the work further with new tees, bunkers and water hazards in 1974.



Putting out at the 2nd hole.



present hotel began its life as the stately Carolina Hotel—'a place of charm and quiet grace, a grand resort known for exceptional service and genuine neighbourliness,' as it was described in the early 1900s.

Extensively renovated, the Carolina, now named the Pinehurst Hotel and Country Club, retains all its early splendour. There are 310

magnificent hotel rooms. Overlooking the golf courses are 200 one, two and three bedroom apartments and houses for daily, weekly or monthly rental.

Take a stroll down the road and you come into the quaint village of Pinehurst where time has stood still and grand homes line leafy lanes.

That's Pinehurst—what a place!

Contact...

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- US Department Of
Commerce
United States Travel and
Tourism Administration
22 Sackville Street
London, W1X 2EA
Tel: 01-439 7433
- Pan-Am
193 Piccadilly
London W1V 0AD
Tel: 409 0688



No 6

Yardage: 7,098 championship, 6,314 men, 5,400 ladies **Par:** 72 men and ladies

Architects: Tom and George Fazio **Opened:** 1979

Landscaping: tees and fairways—Bermuda 419, greens—Penncross bent

Traps: 57 **Water hazards:** 7

Acreage: 92 **Average size of greens:** 5,500 square feet

Irrigation: automatic sprinklers

Designed by the firm of George and Tom Fazio, the course is three miles from the main club and presents an entirely different setting and feel. It is far more rolling with a difficult back nine full of striking views. A variety of oaks and pines, from which the course was carved, discourage the errant hitter.



Bunkers on the 9th.

There always seems to be a bonus on offer at Pinehurst. Any golf nut with time to spare after testing the six courses is strongly advised to visit the fascinating World Golf Hall of Fame, just a courtesy car ride from the hotel. A golf museum and shrine, the Hall of Fame was dedicated in 1974 by then President Gerald Ford. Laurie Auchterlonie, honorary professional to the Royal & Ancient Golf Club, is also the Hall of Fame's international curator and he donated many of the rare items of golfing memorabilia housed within the impressive glass-walled building. Rightly, induction into the Hall of Fame is considered the ultimate accolade for golf's greats and among Britons who have been honored are James Braid, Henry Cotton, Harold Hilton, Tom Morris Snr and Jnr, Donald Ross, J.H. Taylor, Harry Vardon and Joyce Wethered.



Comment From SIGGA's Editorial Staff

SIGGA wishes all members a happy and prosperous 1984!

As we enter 1984, your Executive and Section Committees are conscious of the real need for a more unified voice representing our profession throughout the UK. You will have noted from Press releases lately that a joint meeting of SIGGA, EIGGA and BGGGA representatives is to take place early in the New Year, with the Welsh and Irish entering discussions in the Spring.

It is hoped that all elected officials of Associations approach the table with an open mind, aware of the fact that this will not be a time for self interest, but rather a time when the needs and aspirations of the weak, as well as the strong, in our profession have to be considered. If petty differences are allowed to cloud real issues and normally responsible officials continue to protect small empires, there is no hope of unity and strength.

The Executive Committees of each

Association have this chance to be seen using attributes of leadership, flexibility and sound judgement in the interests of all.

The Membership of each of the Associations has a valuable role to play at this important time in our history. We have elected Section Committees, with representatives to the Executive. They are elected because they are reputed to be sensible, responsible members of our profession. All members should support their every effort on our behalf.

If you do not like a decision, then discuss it through the proper channels—do not be subversive and undermine the good intentions of well-meaning, unpaid, hard-working men.

Finally, the Executive Committee's ultimate responsibility is to communicate every decision made on our behalf as soon as humanly possible to the membership, saving secondhand word causing unnecessary problems.

To this end, *Greenkeeper* should be utilised to the full. With a magazine every month until next winter's

combined issues, members of the Executive Committee have never had a better line of instant communication.

Let 1984 be our year, we deserve it!

*Joe McKean, J. Kidd and E. Small—
Joint Editorial Staff.*

The Association's amended Constitution was approved at the Special General Meeting on 25th October in the Assembly Rooms, Edinburgh.

The major changes are:

1. An Annual General Meeting of the Association shall be held at a place agreed by the Executive in March on a date agreed by the Executive.

2. The financial year of the Association shall run from 1st January to 31st December each year.

3. The financial year of the Section shall run from 1st January to 31st December each year.

These proposals were put forward by the Central Section and were approved by the Meeting.

Other points to note are that the National Chairman and Vice-

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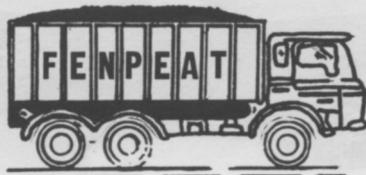
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Chairman shall in future be titled President and Vice-President; election of President and Vice-President shall be made at the AGM; the quorum of members required to form a meeting of the Association was fixed at 25 (twenty-five) and, finally, two Section Committee members, one of whom should be the Section Secretary, shall serve on the Executive.

All of these changes became operative and binding as from the close of the Meeting on 25th October, 1983.

J.D. McKean, General Secretary.

Section News

The Ayrshire Section AGM on 11th October elected Jim Grainger Chairman, Bobby Bennett Vice-Chairman and Duncan Gray Secretary. On 16th November, Dr Clark and Gregor Stewart from Auchencruive College gave our Section a very interesting evening with two lectures illustrated with slides—one lecture was on turf diseases and the other on insect damage to turf. We thank both speakers for giving their services. On 6th December, we had a games night

in the Clubhouse of Irvine Golf Club. An excellent turnout enjoyed darts, pool and dominoes, with prizes of pheasant, champagne and beer being evenly distributed.

D. Gray, Secretary.

The Central Section had a most worthwhile and informative outing to Autogarden at Johnstone and then on to Cochrane Castle Golf Club for a practical demonstration of machinery. This took place on 29th November and we are most grateful to Malcolm Clark of Autogarden and his staff for organising a successful day.

Steetley Chemicals is lecturing to the Section in January; a Social night at Grangemouth Golf Club is fixed for February and there will be a visit to St Andrews in March.

The Spring golf outing will be to Elie Golf Club in April.

The West Section organised an evening lecture on Trees and Shrubs by Kenny McKay of Glasgow District Council at Cowglen Golf Club in December and in January Bill Beveridge spoke to the Section at Bellshill Golf Club on the evolution of

grass cutting machinery. Dr Peter Hayes of the STRI is bringing a team of speakers to Higgs Castle Golf Club on Thursday, 16th February to present a day-long seminar on many aspects of fine turf management. On 14th March, W. Taylor of Johnsons Seeds is coming to Eastwood Golf Club to present his thoughts on fine turf management. The Greenkeepers' Greens Conveners' golf competition for the SISIS Trophy will be held at West Kilbride in March (date to be advised).

I would like to take this opportunity to point out that there will not be a national AGM until March, as this was the date agreed at the EGM on the new constitution and rules. Therefore, the West Section will need to hold another AGM before this date. Please make every effort possible to attend these functions as it is in your own best interests to support the West Section and SIGGA.

Allan McDougall, Secretary/Treasurer.

The Annual Dinner Dance of the East Section was held on Friday, 11th November at Liberton Golf Club. Members and guests enjoyed a great

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night dancing to disco music supplied by Chris Yeaman, one of our young greenkeepers from Turnhouse Golf Club. Thank you, Chris, and thanks also to members who donated prizes of which there were plenty. Finally, thanks to Liberton for taking us, on what must surely be the calendar night of our year.

Two lectures have been arranged for January and February. The first, on Tuesday, 24th January is a visit to St Andrews. Walter Woods has kindly offered to show the Section around his workshops and machinery sheds. There will be a chance to view preparations for this year's Open Championship and we hope a visit to the R&A Clubhouse. Notices for this event are already out and it is hoped that we will have a good turnout.

The second lecture is on Tuesday, 21st February at Duddingston Golf Club. This lecture will be on the same lines as last year with four excellent speakers. Prior to this, the Section AGM will be held. Letters for this have been posted and anyone who has not received one should get in touch with me.

Membership application forms have been sent to every Section member and it is in your interest to return these to me as soon as possible. These will then be handed to the General Secretary, so that all details are on a central file. This should ensure there are no omissions from the circulation list for the magazine or any material sent out from the General Secretary. In the past, members have changed their address and have not informed me, which meant that magazines and letters were going to the wrong places or being returned.

The Annual Spring Tournament will be held on Tuesday, 10th April at Glencorse Golf Club. Entry forms will be sent to every fully paid up member by the middle of March.

William Blair.

The Central Section committee have arranged the following events.

On Wednesday, 15th February, the Annual Games night will be held at Grangemouth Golf Club, commencing at 7pm.

Richard Scotcher of Nickerson Turfmaster will be at Tulliallan Golf Club on Wednesday, 29th February for an afternoon of films, slides and a talk, starting at 2pm.

As March will be a busy month, with the SIGGA AGM and Elmwood one-day seminar, there will be no section activities.

Elliott Small, Secretary and Treasurer.

Minimum Wage Scale and Basic Conditions of Employment

Golf Clubs often seek guidance from SIGGA as to a fair wage for Greenkeeping Staff. Although the figures remain the subject of negotiation between the Golf Club and the Head Greenkeeper, a wage scale has been formulated for 1984.

Head Greenkeeper.....	negotiable
Assistant Head Greenkeeper.....	£122.22 per 40 hour week (certificated)
Assistant Head Greenkeeper.....	£116.48 per 40 hour week (uncertificated)
Assistant Journeyman.....	£106.99 per 40 hour week (certificated)
Assistant Journeyman.....	£101.24 per 40 hour week (uncertificated)

Apprentice to start at 50% of certificated journeyman's wage.....	£53.50
After 1 year of employment an increase of 12½% to.....	£66.18
After 2 year of employment an increase of 12½% to.....	£80.25
After 3 year of employment an increase of 12½% to.....	£93.62
After 4 year of employment an increase of 12½% to.....	£106.99

Basic Conditions of Employment

40 hour working week, Monday to Friday. If not salaried, overtime to be paid as follows:

Basic overtime.....	time and one half
Saturday.....	time and one half until 12.00 thereafter double time
Sunday.....	double time
Statutory Holidays.....	double time plus one day
Statutory Holidays.....	8 days annually, 3 local holidays and 4 weeks annual leave

1. Where accommodation is provided by the Club it should be rent and rates free
2. Where accommodation is not provided by the Club a suitable remuneration should be paid
3. Retirement Pension Scheme
4. Car travelling expenses, Club business, 25p per mile
5. Telephone costs on Club business
6. Washing and Toilet facilities as per Government (Health and Safety) Act
7. Insurance Accident Policy to be paid by the Club
8. Clothing allowance not less than £100 per annum
9. Time off to attend lectures, demonstrations and SIGGA Tournaments

Looking Forward to 1985

Ransomes and the Scottish and International Golf Greenkeepers' Association are going ahead with plans for the Fifth International Greenkeepers' and Superintendents' Golf Tournament and First Scottish Turf Symposium to be held in October 1985 at St Andrews.

The proposed programme is:

Sunday, October 6
Teams assemble at St Andrews.

Monday, October 7
Practice rounds for the teams at St Andrews Golf Club.

Tuesday, October 8
1st Scottish Turf Grass Symposium.

Wednesday, October 9
International Golf Tournament at St Andrews. Evening—Banquet given by Ransomes.

We are grateful to the Links Management Committee and the members for affording us the facility of the Old Course.

TWENTY-ONE YEAR-OLD MALE

with 'O'-Level standard education, seeks position with a golf course staff in Britain or Ireland, with view to eventually training as a greenkeeper.

Has co-managed one of Dublin's most popular pitch and putt courses for 2½ years; attended turf maintenance seminar at Bingley last March.

References available on request.

Contact:

**Patrick Holohan,
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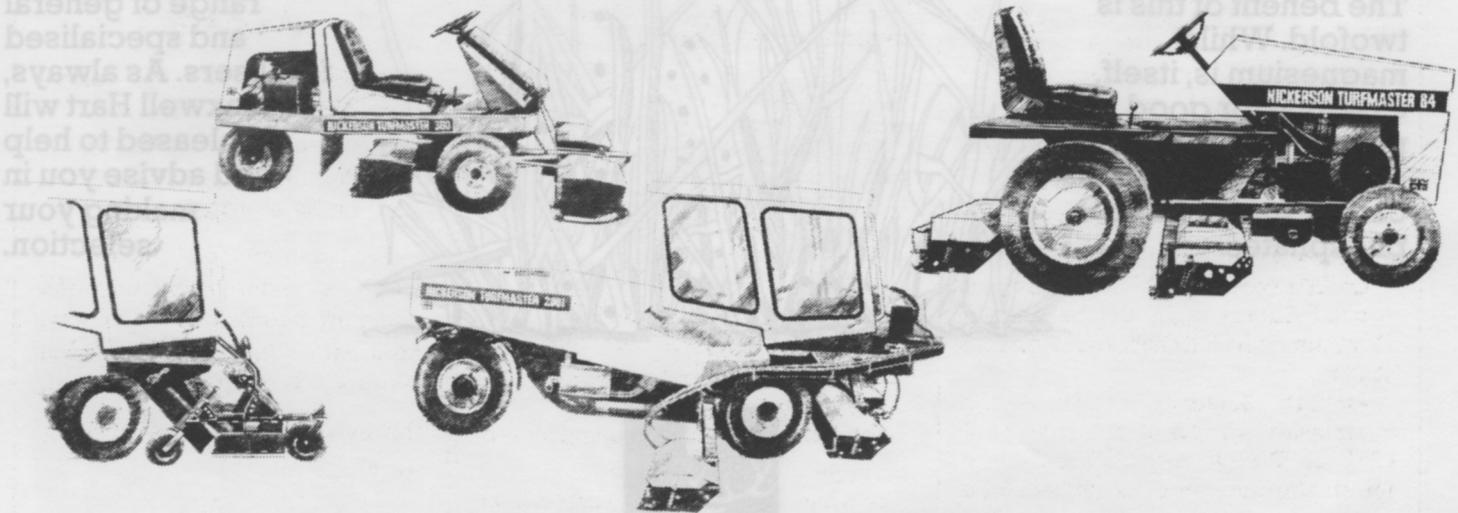
Most of all you need machines that are designed and built for their purpose. For local authority work, broad acres of parkland, for

amenity areas, for golf courses, for general sports turf and landscaped areas.

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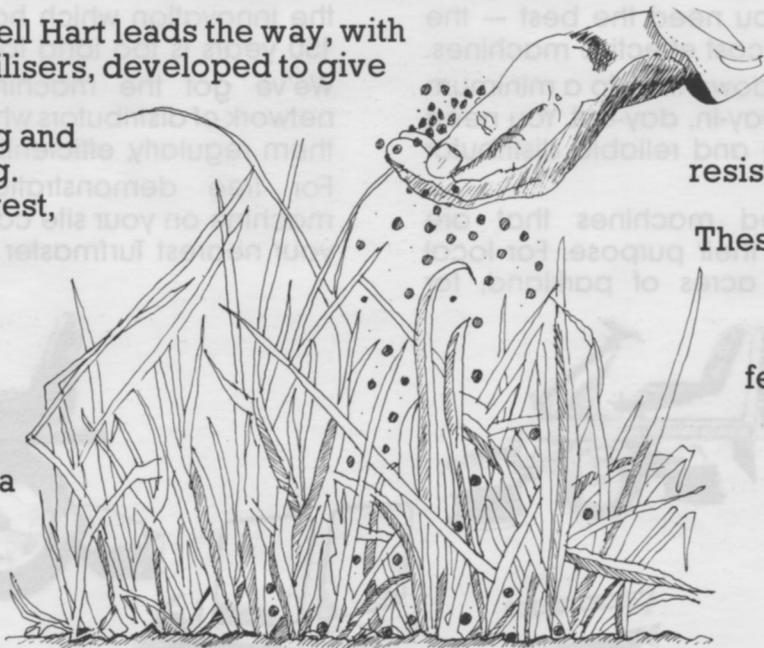
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HART NEWS

New formula makes fertilisers even more effective

Once again, Maxwell Hart leads the way, with two new-formula fertilisers, developed to give even better results: Turf Ranger 1 plus Mg and Fert-E-Miza 6 plus Mg.

As the names suggest, these fertilisers now include magnesium. The benefit of this is twofold. Whilst magnesium is, itself, essential for good plant health and colour, it also acts as a carrier for valuable phosphates.



Both fertilisers also have added iron for improved disease resistance and control of moss and weeds. These are just part of the complete Hart range of general and specialised fertilisers. As always, Maxwell Hart will be pleased to help and advise you in making your selection.



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Telephone Wokingham (0734) 785655. Telex 848669.

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Branch News

East Anglia

Notes by Mick Lathorpe

Have you ever noticed how one-sided greenkeeping is? All on the golfer's side, of course. Members say how good it is to see us playing, as it provides an insight from the golfer's point of view. I could not agree more, but how about some of the committee (as they are supposed to represent the members) spending some time working with us?

They just might understand why we get upset when the course is abused by not doing what should come naturally, such as repairing pitch marks, replacing divots and levelling bunkers. I know all the excuses backwards, but can anyone tell me if there is any logic in walking across a green when the flag is in the front? If

EIGGA Date

Jim Arthur is to give a lecture at Ipswich Golf Club on March 7. Full details can be obtained from David Jones on Ipswich 711810.

the green is unfit to play, surely it is unfit to walk on?

I have come to the conclusion that some members regard us as robots without feelings. Otherwise, why do they play shots without warning while we are in range? I was cutting a green recently when a fourball appeared. They looked to be waiting for me to finish, so I carried on only to have a ball scuttle past my ear. When I asked the would-be assassin whether he would have played the shot if golfers had been on the green, he replied: "Of course not and anyway I shouted 'Fore!'" Tell that to my widow, it will comfort her and the kids no end!

If I said our day at the Gogs was good it would be an understatement. Terrific would be more appropriate. Although the result went against us this time, I'm sure the over 80 that turned up could not fault anything—apart from the weather.

The course was in top form thanks to Doug Neville and the boys and that meal was really something else—Ted Shilts being responsible for all those sheep!

John Arnold, the Gog's captain, led the singing for Mary Neville's birthday

Don't Duck Your Subs!

1984 subscriptions to EIGGA are now overdue. Please remit your fee as soon as possible to the General Administrator, EIGGA, 2 Golf Cottages, Bucklesham Road, Ipswich, Suffolk.

and presented prizes to: top scoring greenkeeper and winner of the Ransomes' Watch, T. Jarvis with 31 pts. 1st—Cpt G. Ling, 36 pts; 2nd—Cpt Dirwin, 34 pts; 3rd—C. Hydlestone, 34 pts; 4th—N. Liddington, 32 pts. 1st (0-18 section)—T. Manning, 29 pts, who won the N.M. Lay Cup; 2nd—Richard Smith, 28 pts; 3rd—George Newson, 27 pts.

In the 19-28 section, Stuart Nott got 30 points before it was too dark to play the 18th, while Mick Meen totalled 28 points.

Finally, I must apologise to Anglia Grass Cutting Machinery for referring to them in the past as Anglia Mowers. Incidentally, the company recently gave a good day at Rookery Park with the help of Marshalls.

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People And Places

Ariens (UK) of St Neots, Cambridgeshire, has taken over the sales and marketing in Britain of the Gravely range of professional grassland equipment. Ariens (UK) territory managers are now responsible for overall planning of their areas, assisted by a Gravely technical team to give weight to the sales drive. For additional information, contact Arthur Wood, managing director of Ariens (UK), on 0480 218111.

The Sports Turf Research Institute will hold three one-week courses in the spring on the theory and practice of turf construction and management. The courses, beginning Monday morning and finishing on Friday afternoon, will cover soils, grasses, turf diseases and pests, drainage, watering, fertilisers and machinery. Starting on February 27, March 5 and March 12, the fees (exclusive of accommodation and meals) are £80 for members and £95 for non-members (plus VAT). Further details from the Secretary, Sports Turf Research Institute, Bingley, West Yorkshire. Tel: 0274 565131.

Golf Landscapes has remodelled three existing greens at Royal Mid-Surrey in the first phase of a major reconstruction programme. The work, valued at £47,500 and under the architecture of Martin Hawtree and the consultancy of George Shiels and Martyn Jones, was scheduled to be completed before Christmas, enabling the greens to be put back into play in the spring.

Turfgrass Seed 1984 is a handy booklet published by the Sports Turf Research Institute with financial assistance from members of the UK seed trade. Contents include a Comparison Of Bent Species, Cultivars Of Bent, Red Fescue, Miscellaneous Fescues, Smooth-Stalked Meadow-Grass, Timothy, Perennial Ryegrass and, finally, Turf-Type and other similar Cultivars Of Perennial Ryegrass. The back page details names and addresses of agents. Copies of the booklet are

available from the STRI, Bingley, West Yorkshire, price 30p (including postage).

Maxwell Hart's *Class of '84 Review* at the Skyways Hotel, Heathrow, London recently proved a resounding success. Delegates received a full company profile and details of major contracts. Next came papers by chairman D. Stewart and H. Hohlfeld, senior executive of Poligras. The meeting was concluded by a talk on a new range of products developed by Maxwell Hart. This was presented by marketing manager Richard Tigwell, field sales manager Bernard Wall and marketing executive Julian Bourne.

For further details, contact Maxwell M. Hart, Winnersh, Wokingham, Berkshire. Tel: 0734 785655.

Perfect Seeds is to open a mixing and packing plant at its Shaftesbury, Dorset base. Managing director David Smart is currently up-grading warehouse facilities in time for spring.

As well as straight grasses, standard one-acre packs of agricultural grass seed mixtures and 10kg and 25kg sacks for the amenity seed market, Perfect will be able to

offer small lawn seed packs to the domestic garden seed trade.

This new move will enable the company to offer off-the-shelf and 24-hour delivery services.

Further information from David Smart on 0747 4877/51201.

Kubota Tractors (UK) has appointed Stanley A.F. West its main dealer. Operating from depots in Exeter, Truro and Teignmouth, Stanley West will help provide a major foothold in the horticultural, local authority and leisure markets.

Brian Hurtle, director of marketing for Kubota Tractors (UK), said: "Naturally, we hope this will be the start of a long and prosperous association with one of the country's leading horticultural machinery specialists."

Further information from Brian Hurtle on 084 421 4500.

SISIS Equipment (Macclesfield) has appointed Len Hill to represent the company in Cornwall, Devon and Dorset. Contact Len at 13 Fairmead, Cam, Dursley, Gloucester GL11 5JR. Tel: 0453 47097.



SISIS Equipment (Macclesfield) recently made a presentation to Pierre Cheronnet, commercial director of Ransomes (France) SA, marking many years co-operation and successful marketing of SISIS products in France. A bone china tea service was given to Monsieur Cheronnet for his work with Maison Henri Perrier and, latterly, Ransomes (France) SA.



Janice Florence, Scotland's only woman greenkeeper, from the Royal Aberdeen Golf Club, and Stuart Taylor of Cathkinbraes GC, Burnside, Glasgow, are pictured after winning two class prizes and two sponsored awards at Elmwood College. They were the winners out of 45 third year greenkeepers who have completed their three years Scotec course at the college.

Janice received the St Andrews

Links Trust award as top student in her year. Stuart won the Challenge Cup (denoted by Brian Marchbanks, professional at Gleneagles) for producing the best project work.

Stuart's brother Alistair, from East Kilbride Golf Club, Nerston (where his father is the club pro), is a greenkeeper and presently in the third year of his course at Elmwood. Alistair is also the assistant pro.

Maxwell M. Hart (London), specialists in the provision of sports and leisure equipment and surfaces, has appointed two new area sales reps. Hugh Soden has assumed responsibility for Bedfordshire and Cambridgeshire and brings with him an extensive practical knowledge of the recreation and amenity market. Hugh is based at Bradden, Towcester.

The recent promotion of Bernard Wall to field sales manager led to the appointment of Derek Smith as area sales rep for Buckinghamshire, Oxfordshire, West Surrey and north-east Hampshire. Derek has considerable experience of sports ground preparation and maintenance.

For further details, contact Richard Tigwell, Marketing Manager, Maxwell M. Hart (London), Winnersh, Wokingham, Berkshire. Tel: Wokingham (0734) 785655.

Nickerson Turfmaster recently strengthened its nationwide representation by the appointment of five new distributors.

They are:

- Bristol Garden Machinery, with showrooms at 345 Bath Road, Bristol (Tel: Bristol 719361).
- Choppen & Company, Saffron Walden, Essex (Saffron Walden 22407).
- Ellesmere AG, Oswestry, Shropshire (Ellesmere 657232).
- Mower Care of Edinburgh (031-668 1947).
- Peter Tice, Driffield, North Humberside (Driffield 43650).

Work has begun on an £800,000 leisure centre at The Belfry Hotel. Completion is due in April.

Steeley Minerals' Vitax department has produced a new 1.25kg carton for Vitax Q4—an all-purpose organic-based fertiliser that can be used both as a base and top dressing.

Vitax Q4 contains all primary nutrients, magnesium and chelated trace elements. The product has been formulated to take the place of John Innes base fertiliser in all soil and soil-less composts.

Vitax Q4 is also available in 3kg and 6kg plastic bags and 25kg sacks.

Brian D. Pierson (Contractors), golf course and landscape specialists of Wimborne, Dorset, has been awarded the contracts to reconstruct the 3rd green at Royal St George's and work at the Ailsa course, Turnberry—both these projects are in preparation for forthcoming Open Championships. Reconstruction of a new green at Coombe Hill Golf Club, Surrey brings the value of these contracts to over £26,000. The company is also engaged in bunker construction and land drainage at Broadstone GC and new tees at Temple GC.

Phil Marshall, 72, a popular figure in London and the Home Counties, died recently. Upon his retirement in 1976, after 21 years as a rep with Ransomes, Phil moved with his wife to Dorset, where he continued his interests in gardening and golf.

For many years before joining Ransomes, he worked for H. Pattison of Stanmore. Ted Huxley, managing director of Huxleys, said: "I admired him greatly for his modesty and integrity. He will be greatly missed by myself and my family, as well as many others in the trade."



Refinements For The Cushman

Advances in the design of both engine and transmission cooling systems have been made on the Cushman Front Line Rotary Mower.

Cushman has altered the direction and method of air intake to the petrol engine version of the Front Line, ensuring that only clean air is directed to the engine's cooling fan, preventing the entry and build-up of grass, dust and other debris.

The new cooling air intake and delivery system consists of an easily-maintained, washable filter, screen-mounted behind the driver's seat and connected to a duct that directs clean air only to the engine's cooling fan. A similar ducted-air intake is already fitted to the water-cooled diesel version of the Front Line.

As a further aid to improving performance, the transmission oil cooler on the petrol Front Line has been moved to a new position within the special air intake filter screen behind the seat. The result is that only cool, clean air will pass through its fins, greatly enhancing lubrication efficiency in all conditions.

Two other features include a remote oil filler to prevent lubricant spillage and subsequent dust collection on the engine and an oil temperature sensor in the sump. If the engine oil temperature rises beyond a specified level, a warning light shows and a horn alerts the driver.

Complete kits for fitting to petrol-engined Front Lines now in use are to be made available via appointed area dealers.

Huxleys recommends that all petrol-engined Front Line users should have the kit installed to bring machines up to 1984 standards. Not only will it reduce operator maintenance requirements, but it will significantly improve engine cooling for greater efficiency and longer life.

New Address

From January 24, the full address of Huxleys' head office is:

Huxleys Grass Machinery,
Hillside,
Thorpe Lea Road,
Egham,
Surrey TW20 8JG
Tel: Egham (0784) 38666
Telex: 894426

Paul Huxley can still be contacted on Alresford (096273) 3222

All new petrol-engined Front Lines supplied for next season will have the filtered and ducted air intake system, remote oil filler and temperature sensor fitted as standard.

• Huxleys Grass Machinery has moved its headquarters from Church Street, Staines, Middlesex to new,

purpose-built premises at Hillside, Thorpe Lea Road, Egham, Surrey. All aspects of the company's grass machinery business have been transferred to Egham. Huxleys' product development, manufacturing and retail operation at New Alresford, Hampshire is unaffected by the change in head office location.



Cool, clean air is ducted to the Cushman Front Line's petrol engine via a compact filter screen mounded behind the driver's seat. The new air intake filter, which also houses the transmission oil cooler, can be easily removed for cleaning.

Promotional Literature From Johnsons

Johnsons Seeds has issued a six-page brochure highlighting the benefits of Merlin Slender Creeping Red Fescue, which is British-bred.

The Merlin brochure includes a range of mixtures designed specifically for reclamation work and includes several other interesting species, such as Salt Marsh Grass and Flattened Meadow Grass. The eight mixtures cover a wide range of unusual requirements, from heavy metal contamination to factors typical of coastal areas, such as salt, drought and nutrient poverty.

The company has also issued a brochure covering the standard J range of turfgrass mixtures and master blends for 1984.

The eight-page catalogue has been designed to simplify mixture selection. Headings cover recommended purposes, sowing rates, mowing heights and

compositions, which are tabulated for easy reference and show how tolerance to mowing and trampling changes progressively across the range.

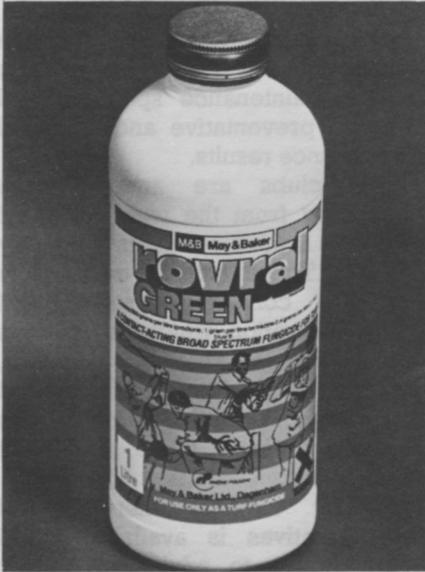
A second table lists alphabetically 50 different turfgrass areas and shows the recommended J mixture or master blend.

Merlin has been introduced into mixtures J3 and J8 for the new season. A separate brochure explains the benefits of this variety.

The J range is formulated with leading cultivars prominently featured in the merit lists issued by the Sports Turf Research Institute—a copy of which can be obtained for 30p, either direct from the STRI or Johnsons.

Free copies of both brochures can be obtained from Johnsons Seeds, London Road, Boston, Lincs PE21 8AD.

Rovral Revamped



Rovral Green—new on the market from May & Baker and designed specifically for the turf industry—is a liquid formulation of Rovral powder, with special additives to give the added convenience of easier handling and measuring.

Packed in one litre cans treating 500sq m, each can corresponds to the area to be covered—one litre to treat a golf green, three litres for a bowling green.

The new liquid formulation increases the effectiveness of the fungicide even if it rains soon after spraying. Also, Rovral Green reduces the build-up of morning dew—with the added bonus of at least a fortnight free from 'dew switching'.

Controlling all the major turf diseases, Rovral Green's contact action can be used throughout the year to keep fine turf free from Fusarium Patch, Red Thread, Dollar Spot, Brown Patch Leaf Spot/Melting Out and Grey Snow Mould, application in the winter making the grass noticeably greener.

Rovral Green is especially useful during the winter and periods of summer drought when systemic fungicides are less effective.

M&B's Selective Killer

While aiding aeration and improvement of soil structure, a minority of earthworms found in the UK cause unsightly casts.

Favouring the conditions found in fine turf areas, namely light sandy soils or light and medium loams with a fairly neutral pH of not less than 5.0, worms flourish under grass-covered surfaces, benefitting from the insulation afforded against extreme conditions while enjoying a constant source of food.

Given such conditions, densities of up to 500 worms per square metre are common.

Apart from their unsightly nature on well-managed turf, heavy casts deposited by casting worms create a mud problem and an uneven surface on sports turf. Turf strength, important for players to maintain a good grip, also decreases dramatically.

The deposited soil encourages the spread of weeds and disease while a high incidence of worms can often lead to mole invasion.

To overcome unselective control of both beneficial and casting earthworms, May & Baker has launched Castaway. A liquid formulation of thiophanate, Castaway selectively kills only surface-feeding earthworms, including all those that leave casts, leaving beneficial species living deeper in the ground unharmed.

Applied to the surface as a spray at or before the first sign of worm casting in either spring or autumn, Castaway has distinct advantages over much greater toxic chemicals,

such as chlordane and carbaryl. The latter, being non-selective contact killers, require much higher rates of chemical as a drench in up to 3,000 litre per hectare of water.

Castaway, meanwhile, while being at least 17 times less toxic, requires only 25 litres of chemical in 500 litres of water. Effective for at least three months control, Castaway is safe to use on all turf areas including fine or semi-fine turf.



Twelve Months At-A-Glance

The *Complete Weed Control 1984 Year Planner* is printed in full colour and carries information on general weed, shrubby weed, selective weed and grass growth control. The chart is also illustrated with many varieties of weed to aid identification.

Measuring 34in x 24in, the wall-chart is finished in a wipe-clean surface and costs £5.50 (including postage and packing). Write to Year Planner Offer, Complete Weed Control, The Industrial Estate, Bourton-on-the-Water, Gloucestershire GL54 2EN.



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THE TF 700 - WITH ONE ATTACHMENT
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A Package Deal For The Professional

The Lely Iseki TX2160, combined with the new Polymark MR20 Rotary Mower, provides a compact, efficient unit with excellent manoeuvrability and the ability to follow ground contours, with a cut of 48in.

The TX range of tractors can operate under the most adverse weather conditions. They have water cooled, four cycle, three cylinder diesel engines. Fuel costs are substantially reduced by an efficient swivel-type combustion chamber.

The cutting performance is fast with a high output and clean cut even in heavy growth. Three high-lift blades are fitted in triangular formation, each separately ducted to a rear centre discharge.

The drive system incorporates large sealed bearings, heavy-duty blade carriers and a twin belt final drive with automatic tensioning. The cutter head is all-welded steel, reinforced for continuous duty. Particular care has been taken to minimise noise levels.

The TX2160 is also available with the Polymark GM 386 fully mounted hydrostatic gang mower, offering the advantages of a purpose-built, self-propelled machine with the bonus of out-of-season availability of the Lely Iseki tractor for additional work.

The fully independent hydrostatic drive system incorporates on/off controls, automatic shut-off for the wing units when raised and hydraulic lift of all cutting units.

Full details from Colin Gregory, Lely Iseki Tractors, Station Road, St Neots, Cambs. Tel: 0480 76971.

Lely Iseki TX2160 gets down to business...

Lely Link With TORO

TORO has formed a UK distribution link with Lely of St Neots, Cambridge. Lely is now offering the complete range of TORO products to its nationwide network of dealers backed by extensive promotional plans.

Graham Dale is sales manager. Geoff Urquant is service manager and David Boothby and Colin Graham handle marketing.

TORO models range from the 320/E 12½in (32cm) Walk Behind through to the 11hp Rider Mower and the Greenmaster series with the 14hp air cooled four cycle engine.

As well as rider and walk mowers, the TORO lawn care product list also includes tillers, lawn debris management machines, mulching mowers, flexible line trimmers, garden hoses and many other outdoor appliances.

MMP's Maintenance Plan

Modern Maintenance Products has introduced a service designed to reduce maintenance spending and improve preventative and remedial maintenance results.

Golf clubs are among those benefitting from the wide range of products available, which are easily applied. These include coatings to eradicate corrosion, erosion and damp infiltration which have been used successfully on stanchions, girders, terracing and ground machinery, producing permanent solutions in those difficult applications.

MMP's national network of representatives is available at 24 hours notice to advise on urgent problems.

For further details, contact Modern Maintenance Products, Bilton Court, Wetherby Road, Harrogate HG3 1LN.



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F&M

The Fife Regional Council — Education Committee



elmwood agricultural and technical college
CARSLOGIE ROAD, CUPAR, FIFE

ANNUAL GREENKEEPERS' CONFERENCE

WEDNESDAY, MARCH 21st, 1984

If you have not received Conference details from us by the end of January, please write to:

Conference Organizer, Mr. M. L. Taylor, Elmwood College, CUPAR, Fife, KY15 4JB. Tel: (0334) 52781.



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M&B May & Baker

Rovral Green is a trade mark of May & Baker Ltd., Dagenham, Essex, RM10 7XS.

Digging Deep

The Varidrainer from L.D. Bourgein Oxford is the present-day version of the original Sandslitter, which the company first put on to the market some ten years ago.

Then, the Sandslitter was cased in rubber sheets to prevent soil spillage and only trenched to a width of 2½in. There were two other major faults—stones jammed inside the rubber, which also tore all too easily.

With the modern Varidrainer—manufactured for the Case Task Force 700 Trencher—there is ample room for large stones to pass through and trenches from 2½ to 8 inches wide can be dug to a depth of 25 inches.

Another modification since the early days is that the spoil disposal conveyor has been altered and a two-stage system now discharges at a height of 6 feet. Belt speed can be controlled for maximum trailer fill.



The ideal combination from L.D. Bourgein Oxford...

There are six versions of the Case range of Trenchers, manufactured in America, but available in the UK through L.D. Bourgein's dealership. Bourgein offers a full sales service on new or reconditioned machines, large stores with same-day despatch to

minimise down time, fully equipped workshops and service vans for on-site visits, as well as, for the south of the UK, a hire service.

Full details from L.D. Bourgein Oxford, South Hinksey, Oxford OX1 5AZ. Tel: 0865 735420.

Day's Talk On Turfland

Turfland Professional Equipment held its first annual dealers' meeting at the Lord Daresbury Hotel, Warrington recently. Guests were welcomed by Janet Watmore and shown two videos of how the family company has expanded since it was founded in 1976.

The group was taken to Chris and Janet Watmore's 200 acre turf farm at Preston Brook for working demonstrations of established and new Brouwer turf products. In addition, there was a tour of the company's offices and stores where new computerised stock and accounting systems were shown.

The afternoon commenced with Chris Watmore's slide show on the

Brouwer operation in Canada and new products soon to be available in the UK. Later, talks were given by John Wyatt of McCormick Intermarco DBA

on Turfland's advertising campaign and Bernard Turner of Turfland discussed contracts and this year's stocking programme.



Working demonstration for dealers at Turfland.

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Applicants must be fully experienced, have proven practical ability in all aspects of course management and machinery maintenance. Minimum Salary £5,000 negotiable.

Apply in writing, giving age, experience and when available, to: The Secretary, Tunbridge Wells Golf Club, Langton Road, Tunbridge Wells, TN4 8XH.

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wish to appoint an

Assistant Greenkeeper

The applicant must be experienced in using the full range of modern equipment.

A modern house with 2/3 bedrooms is available on the course and total remuneration in the region of £5,000 per annum may be expected.

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Tel: Marlow 72555 Telex: 311210.
Hamilton Stutt & Co.,

12, Bingham Avenue, Poole,
Dorset, BH14 8NE
Tel: (0202) 708406.

Hawtree & Son

5, Oxford Street,
Woodstock, Oxford, OX7 1TQ
Tel: Woodstock (0993) 811976.

T. J. A. McAuley BSc FICE,

7, Donegal Square West,
Belfast, N. Ireland, BT1 6JF
Tel: (0232) 26981.

BRITISH ASSOCIATION GOLF COURSE CONSTRUCTIONS

Chipman Ltd.,
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Tel: 0403 60341.

Eccles Contracting Ltd.

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Hyde, Cheshire, SK14 7DZ
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Golf Landscapes Ltd.

Ashwells Road, Bentley,
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Tel: 0277 73720.

Land Unit Construction Ltd.

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Tel: 0908 510414.

Brian D. Pierson (Contractors) Ltd.

27, Vicarage Road, Verwood,
Wimbourne, Dorset, BH21 6DR
Tel: 0202 822372.

Southern Golf & Landscapes Ltd.

85, West Street,
Warwick, Warwickshire,
Tel: 0926 492898.

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Charles Lambert (Lawns) Ltd.

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Tel: 01-954 4171.

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Contact: Frank Gerson.

Mommersteeg International,

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Tel: Wellingborough (0933) 680674

Contact: Michael Perkins.

Suttons Seeds Ltd.

Hele Road, Torquay, Devon,
TQ2 7QJ
Tel: (0803) 62011

Contact: R. W. Palin.

Sinclair McGill PLC.

Attenburys Lane, Timperley,
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Tel: 061 973 2214 Telex: 665130

Contact: Andrew J. Forbes.

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The Green, Upper Halliford,
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Contact: Sales Department.

Sports Ground Irrigation,

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Tel: (0858) 63153.

Toro Irrigation Ltd.

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Monument Way E., Woking, Surrey, GU21 5LY
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Wood Lane, Barston, Solihull, West Midlands,
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Contact: Stephen or Michael Fisher.

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NETHERTON, LANGBANK,
SCOTLAND.**

Final date of application: 25th February, 1984.

SENE VALLEY GOLF CLUB

require a

HEAD GREENKEEPER

for their 18-hole private course.

Applicants must possess a sound knowledge of modern turf management techniques, a thorough knowledge of the use and maintenance of machinery and the ability to direct staff.

Salary negotiable.

No accommodation.

Apply in writing, giving age, details of previous experience and references to:

**R. W. Merry,
Manager,
Sene Valley Golf Club,
Sene, FOLKESTONE,
Kent.**

HANDSWORTH GOLF CLUB LTD.

require a working

HEAD GREENKEEPER

Applicants must be fully experienced in course management and capable of motivating staff.

Attractive Salary and Accommodation.

Applications in writing to the Secretary, giving details of previous experience and references.

**HANDSWORTH GOLF CLUB
9 SUNNINGDALE CLOSE
BIRMINGHAM B20 1NP.**



**SOUTH
PEMBROKESHIRE
DISTRICT
COUNCIL**

Works and Services Department
**CHARGEHAND
GREENKEEPER/GARDENER**

(Weekly Pay £85.80 plus £14.68 bonus)

Under the general direction of the Parks Superintendent, the person appointed will be required to undertake the improvement and maintenance of the Memorial Park Bowling Green, Pembroke Dock, and carry out a programme of horticultural development at a number of amenity areas in the Pembroke/Pembroke Dock areas. Applicants should have a minimum of 3 years' experience of skilled horticultural and/or sportsground work and possess an Institute of Groundsmanship Certificate, or similar qualification.

The appointment is for an initial period of two years, to be reviewed after that time.

Temporary or permanent housing, disturbance allowance and assistance with removal expenses available in appropriate cases.

For an application form and further details, please contact the Personnel Officer, District Offices, Llanion Park, Pembroke Dock, Dyfed, SA72 6DZ.

Completed application forms should be returned by Friday, 24th February, 1984.

Appointments

STOKE POGES GOLF CLUB

require

HEAD GREENKEEPER

A challenging opportunity is available at this prestigious 18-hole course for an experienced person with at least TEN years' proven background in golf course maintenance. Particular requirements are:—

- (a) Thorough knowledge of turf management and automatic watering;
- (b) Practical knowledge of course machinery and maintenance;
- (c) Ability to motivate and lead staff.

The Club offers: An attractive salary — staff pension plan — accommodation is available.

Write, giving full career details, to:—

Secretary/Manager
Stoke Poges Golf Club Limited
Park Road
Stoke Poges
Bucks. SL2 4PG
Tel: Slough 26385

HEYSHAM GOLF CLUB

require

HEAD GREENKEEPER

Experienced man with proven ability in all aspects of course management, staff control and working knowledge of machinery maintenance.

Good salary.

Apply in writing, giving age, experience, qualifications and salary expectations, to:—

THE SECRETARY
HEYSHAM GOLF CLUB
TRUMACAR PARK
HEYSHAM
LANCS.

WEST ESSEX GOLF CLUB

require a

HEAD GREENKEEPER

Applicants must have proven knowledge of modern turf management techniques, the use and maintenance of modern greenkeeping machinery, and the ability to motivate and lead a staff of five.

The Greenkeeper will be responsible for the maintenance of the course to its present high standard.

Salary negotiable, commensurate with experience.

Accommodation available.

Apply in writing, stating full particulars of experience to date, to:—

THE SECRETARY/MANAGER
WEST ESSEX GOLF CLUB
BURY ROAD
CHINGFORD
LONDON, E.4.

ELSTREE GOLF CLUB, SOUTH HERTS.

require

HEAD GREENKEEPER

New 18-hole course due for opening Autumn '84/Spring '85. Applicants must be experienced, self-motivating and have a sound knowledge of greenkeeping and associated machinery. This is a challenging position and the successful applicant will be responsible to and working with the Owners to bring the course to a high standard to withstand extensive play.

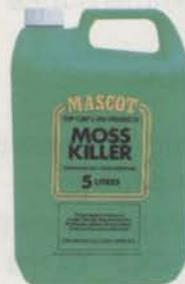
Salary to be negotiated. No accommodation available.

Applications in writing, giving full details of present position, previous experience and names of two referees, to:—

ELSTREE GOLF CLUB
C/O HATTON & HAND
45 HIGH STREET
ETON, WINDSOR
BERKS. SL4 6BL

MASCOT

ON COURSE FOR SUCCESS



Rigby Taylor Limited
Rigby Taylor House, Garside Street,
Bolton, Lancashire BL1 4AE
Tel: (0204) 389888

Rigby Taylor (South) Limited
Unit 7, The Riverway Estate, Peasmarsh,
Guildford, Surrey GU3 1LZ
Tel: (0483) 35657