WE TAKE A SIZE 15 COMFORTABLY.

On the surface of it golf may seem like a relatively harmless pastime.

But take a worm's eye view of an amateur golfer and it's a very different story.
One glimpse of those brand new spikes followed by a slicing number 9 iron can strike terror into the hearts of some makes of grass seed.

However at Suttons we're not so green.

Golfers, pro and amateur, have been walking all over us for years, on courses from Turnberry and Sheringham to Golf Ismolas in Sardinia.

We can offer you an extensive range of grass seeds for tees, fairways, greens and the rough. Plus a big range of fertilizers and turf dressings.

Write to us at Torquay TQ2 7QJ or phone Torquay 62011 for more information. We'll show you how sowing the perfect golf course can be a walk-over.

Suttons Seeds
170 years experience at your feet.
Back in history an English army led by General Johnnie Cope marched up to Scotland on a visit which could hardly be described as sociable. He camped near Longniddry at a place called Prestonpans and promptly went to bed. He was rather a heavy sleeper and by the time he awoke in the morning the Scots had arrived and dished out their own brand of Highland hospitality. The legacy of this event is a Scots song with the opening line “Hey Johnnie Cope are ye wakened yet”.

The raiding party of the North-East section of the BGGA were certainly wide awake when they arrived at Longniddry Golf Club on 23 October to take up their clubs against a team from the East Section of SIGGA.

A heavy wind most of the morning abated to provide ideal playing conditions on a Course which Duncan Herd and his staff had in excellent condition. A great day’s Golf was had by all, not only the two teams of six couples but playing and non-playing supporters as well.

The NorthEast Section repeated the previous year’s performance and ran out convincing winners 44 games to 11.

Real Scots hospitality was much in evidence and a great day was enjoyed by the whole party.

In the brief speeches concluding the formal proceedings Chairman Harry Smith for the Hosts and Jack Simpson for the Visitors warmly thanked the council and staff for Longniddry Golf Club and Graeme Forbes of Stewarts and his staff for the parts they played in making it a memorable day.
... not only are they dependable but economical, superbly engineered and all models within the range do not require costly Q cabs. Take your choice from 13hp to 35hp and depending upon model 2 or 4 wheel drive.
The game of golf originated on the linkslands of Scotland and since those humble beginnings has extended throughout the world. Within our own shores, it has encroached on virtually every type of site imaginable. From linksland to woodland, from fertile pastureland to industrial wasteland; no terrain has escaped the imagination and determination of the golfer and golf course builder.

About half the golf courses in Britain were in existence before 1900, whereas in America, where fervent patronage of the game festinated the development of courses, it is very much a 20th century pastime.

The majority of British greens were constructed from the native soil and contoured to ensure surface shedding of water. Their inherent properties were characterised by the unyielding hardness of their surfaces during the drier summer months. The British “chip and run” game was a natural consequence of these qualities.

The courses received relatively little use, particularly during the wetter months, and the indigenous grasses were well able to withstand the limited traffic. However, in more recent years the greater demand for all-year-round golf and the increased number of golfers has put a strain on these old courses.

The American influence on the game has also initiated a major change to British golf courses. Resilient greens with the capacity to “hold the ball” are now desired by the majority of British golfers.

The American high sand-content greens require efficient irrigation systems and high rates of fertilisation to maintain the grass in good condition. In many States, the high temperatures necessitate frequent, light irrigation to cool the grasses and avoid heat stress. The American “pitch and stop” game is a natural consequence of their greens construction and maintenance systems.

The transplantation of the American game to the courses of Britain has resulted in British golfers demanding heavy rates of irrigation and fertilisation on their greens. This despoilation of the original game, founded on dry, hard putting greens, has caused further degradation of many honourable old courses.
General view during the construction of the porous layer green.

has been sown on the green to typify many problematic greens in Britain. The seed was from an annual strain of Poa annua, producing the floriferous, upright, tufted habit of the common garden weed. In time, the sward may change with the ingress of a more perennial strain, displaying a less floriferous, more prostrate, creeping habit of growth. This would create a much more desirable putting surface.

The green will receive a maintenance programme sympathetic to the requirements of Poa annua.

The irrigation equipment for this green has been kindly donated by Watermation Ltd and comprises of four RK 70 PC pop-up sprinkler heads.

Porous layer construction

This construction has a cross-section similar to the USGA Green Section Specification, consisting of a pipe drainage system underlying a gravel raft of washed pea gravel (10 mm diameter). The material was spread to a uniform depth of 150 mm over a subgrade which maintains the same contours as the final putting surface. A 50 mm blinding layer of coarse sand was spread over the consolidated gravel raft to prevent the migration of the rootzone mix into the drainage system.

The topsoil mix is a modified version of the USGA Green Section Specification.

In many areas of North America, the high precipitation rates and incidence of Pythium Blight, an extremely damaging, water-borne disease, necessitates rapid surface drainage of golf greens. To ensure the required drainage rates, the USGA Green Section Specification stipulates a rootzone mix with the bulk of its particles falling within the coarse to medium sand range (1 mm to 0.25 mm diameter).

The drainage rates preferred in America can be considered excessive in our more temperate climate and, with this point in mind, the rootzone mix in this green consists of a prepared compost with the majority of its particles falling within the medium to fine sand range (0.50 mm to 0.125 mm diameter).

The prepared rootzone mix was spread to a uniform depth of 300 mm. Peat was incorporated into the top 50 mm of the mix to aid moisture and nutrient retention for germination and establishment of the grass.

The prepared rootzone mix was spread to a uniform depth of 300 mm. Peat was incorporated into the top 50 mm of the mix to aid moisture and nutrient retention for germination and establishment of the grass.

A plastic barrier was installed around the perimeter of the green construction to prevent lateral moisture movement from the greens' coarser rootzone mix into the fine-textured collar soil. Omission of this textural barrier would have resulted in the risk of a droughted edge to the green.

Outlet point being positioned in the PVC sheeting during the construction of the "Cellsystem".

The green was sown with a traditional 80% Chewing's Fescue / 20% New Zealand Browntop seed mixture and developed a 300 mm rooting depth within eight months of sowing.

The irrigation equipment for this green was kindly supplied by Toro Irrigation Ltd and E. A. Yates & Son (Sandbach) Ltd and comprises three Toro 650 Series pop-up sprinkler heads.

The tee is a traditional construction but, at a later date, will have a sand-slit drainage system installed as a demonstration of the technique.

Cellsystem

The "Cellsystem" is a new and patented construction system which cannot be compared to any conventional methods.

The site was excavated to an average depth of 400 mm and lined with a laminated PVC sheet to isolate the green construction from the surrounding and underlying soils.

The "cell" so produced — hence the tradename — has a network of perforated pipes laid on the plastic sheeting. There is a water intake point and an adjustable outflow control. This allows sub-irrigation whilst providing accurate control of the water table within the construction.

Porous sand, the material which produces the rootzone mix, was placed directly on the plastic film and the pipe system. The average depth of the sand is 400 mm, peat and fertilizer being incorporated into the top 100 mm to ensure nutrient availability for germination and initial establishment of the grass.

When the "cell" had been filled with the sand and the surface ameliorants had been incorporated, the outlet control was raised to facilitate total saturation of the construction. As the water became visible at the surface, the outlet control was lowered to drain the construction, simultaneously producing even settle-
ment of the sand. This operation was repeated until the sand had been satisfactorily consolidated. The surface was then rolled firm in readiness for seedbed preparation.

At this stage it was decided to experiment with a Ransomes “Motor Rake” to produce the seedbed. The technique was very successful, although slight adjustments to the rakes were necessary to produce a satisfactory result. Greenkeepers and construction companies might find similar trials of interest and value.

The green was sown with Agrostis palustris “Penncross” at a rate of nine grammes per square metre. The seed germinated in five days and within a month had produced a dense sward with a rooting depth of 100 mm. As the roots elongated, the water-table was lowered to avoid the development of anaerobic conditions in the rooting zone.

A number of trials will be carried out to ascertain the most suitable maintenance programme for the grass under these growing conditions.

It is the first “Cellsystem” golf green in Britain and the materials for the construction were generously donated by Cellsystem AG/SA/Ltd of Switzerland and Chipman Ltd, the UK licensee for the system.

The tee for this hole will be a porous layer construction but will be divided into sections to demonstrate the effectiveness of a variety of porous layer materials, including washed pea gravel, “Lytag” and “Perlag”. A variety of rootzone mixes will also be utilized and will demonstrate the qualities of “Lignite”, “Turface” calcined clay and “Perlite”.

Sand/humull construction
A “Mackenzie” green is presently being constructed and will contain a sand/humull rootzone mix. The sand used in the lower tier will be a coarse to medium sand, whilst that in the upper tier will be a medium to fine sand.

Upper tiers of high sand-content greens often display severe drought problems. The aim of this construction is to ensure uniform moisture distribution throughout the green. Differences in playing characteristics of each sand will be observed and noted.

The depth of the rootzone mix will be 300 mm but will not be a homogeneous mix. A cross-section of the construction will reveal that it consists of three layers. The 100 mm thick base layer will be composed of seven parts by volume of sand / one part by volume of “Humull”, a peat product which was generously donated by Fisons Ltd. The 100 mm thick middle layer will consist of 2 parts by volume of sand / one part of “Humull”, enriched with additional nutrients; and the top 100 mm will be composed of four parts by volume of sand / one part “Humull”.

The provision of a nutrient and organic-rich layer half way down in the construction is aimed at improved moisture and nutrient retention and subsequent root branching. It should also produce a soil atmosphere which is more favourable to the intended grass species composition, a mixture of Agrostis castellana “Highland” and a number of Agrostis tenuis cultivars. Agrostis species are susceptible to a number of diseases, notably Fusarium nivale and Ophiobolus graminis var.avenae, and the incidence of disease on the sward will be closely monitored.

A pop-up irrigation system has been kindly donated by Cameron Irrigation Company Ltd.

A large greenside bunker is lined with “Terram 1000” filter membrane to prevent the underlying silt from contaminating the bunker sand, the material being kindly donated by ICI Ltd.

The tee is a sand-bed construction and consists of a 150 mm layer of medium to fine sand overlying a network of gravel trenches at two metre centres. Half of the tee was sown with Poa pratensis “Kimono” and the remaining half laid with “Bravura” turf of the same grass composition. The seed and turf were kindly supplied by Mommersteeg International Ltd. A pop-up sprinkler irrigation system has been kindly donated by E. A. Yates & Son (Sandbach) Ltd and consists of six Toro 300 Series heads.

USGA Green Section specification
A green is to be constructed that will conform to the specifications of the USGA Green Section. It will provide an interesting and valuable comparison to the other methods. An irrigation system will be installed, the equipment being generously provided by Perrot Irrigation Ltd and will demonstrate their L.VZEW pop-up sprinklers.

General features
Bunkers have been constructed to
demonstrate a selection of techniques. Grass-faced, sand-faced and reversed-turf-faced are included in the examples. Various depths and different types of sands have been used to compare the “playability" of bunker sands. Synthetic teeing surfaces will be included to provide useful comparisons between proprietary materials. They will be laid according to the manufacturers recommendations and the amount of usage will be closely monitored. The development will also be furnished with a variety of golf course accessories to display the range currently available.

A different maintenance programme will be adopted on each green and tee, sympathetic to the requirements of the grass species composition and construction system. A wide selection of maintenance equipment is available for evaluation and operative training, the well-equipped College machinery workshop providing an ideal servicing and repairs facility. The development is the first extensive purpose-built turfgrass teaching complex in Europe and, with the additional features of winter sports areas, bowling green, cricket square, hard porous pitch, demonstration and trial grounds, will provide a unique opportunity to turfgrass managers, architects and other members of the industry to study and compare a wide range of sporting surfaces and maintenance systems.

Education is an integral part of technological progress and can contribute a great deal to the development of an industry. Conversely, industry can contribute a great deal to the development of education and technological progress perpetuates the need for education. The degree of industrial involvement in the provision of this teaching unit indicates a promising future for people associated with the construction and maintenance of golf courses and other sporting facilities.

Golf course greens in the west of Scotland are being attacked by "a green, slimy primitive organism", described as “treacherous to walk on and looking like broken-up jellyfish". The agronomist to the Royal and Ancient club said the unidentified organism is “the most difficult problem in recent greenkeeping history". As yet, it appears to be confined to courses around Glasgow, Eastwood and Bonnyton.

The British Agrochemicals’ Association has strongly defended the use of the highly toxic weedkiller, 2,4,5-T, after calls for its ban. The association’s director, Mr C. S. Major, said there was a wealth of evidence to show that 2,4,5-T products, where the amount of the impurity dioxin was strictly limited, were safe to use as directed. This evidence was accepted by independent authorities, governments throughout the world and international agencies, he claimed. During the Vietnam war, 2,4,5-T was used as a defoliant. Dioxin was released in the Seveso disaster in which a town in northern Italy had to be evacuated. And a study in Oregon, USA, showed that women in areas treated with the weed-killer had more miscarriages than women living elsewhere.

A ban on its use in Britain has been called for by the National Union of Agricultural and Allied Workers. Mr Major said products used in Vietnam contained up to 450 times the level of dioxin permitted in products which were sold in the UK.

The UK limit of 0.1 parts per million was recognized as acceptable by both the Food and Agricultural Association and the World Health Organisation.

Dioxin was produced at Seveso as a result of an accident in the manufacture of a type of trichlorophenol, which was not made in the UK, he said. American authorities still allowed 2,4,5-T to be used on rice and range-land. They had suspended some uses until the results of further tests were available.

In the United Kingdom, there was no evidence connecting the chemical with suggestions that it was responsible for abnormalities and miscarriages in humans, and abnormalities in sheep.

The National Union of Agricultural and Allied Workers has instructed its members employed by the Forestry Commission not to use the chemical 2,4,5-T.

The decision came after the Commission turned down a request from NUAAW president, Mr John Hose, to ban its use.

As from 1 January 1980, British Seed Houses has appointed Mr R. Jeremy C. Howarth, OND, as their Northern Technical Representative, who will be based in Skipton, Yorkshire. Mr Howarth trained at Askham Bryan College of Agriculture and Horticulture and gained further experience with Basildon and Leeds Parks Departments. He has spent the last four years with the Sports Turf Research Institute at Bingley where he was a Technical Advisory Officer for Southern Scotland, North East of England and East Anglia.

At a recent meeting of the Executive Committee the following recommended wage scale was approved:

<table>
<thead>
<tr>
<th>Position</th>
<th>Course / Length</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Greenkeeper</td>
<td>36 hole course</td>
<td>£127.40 pw</td>
</tr>
<tr>
<td></td>
<td>27 &quot;</td>
<td>£120.35 pw</td>
</tr>
<tr>
<td></td>
<td>18 &quot;</td>
<td>£113.30 pw</td>
</tr>
<tr>
<td></td>
<td>9 &quot;</td>
<td>£106.15 pw</td>
</tr>
<tr>
<td>1st Assistant Greenkeeper</td>
<td></td>
<td>£92.05 pw</td>
</tr>
<tr>
<td>Assistant Greenkeeper</td>
<td></td>
<td>£84.95 pw</td>
</tr>
</tbody>
</table>
Dear Members,

What happened to my idea for our own Association Golf Course, Training School and Headquarters. Remember the appeal for 200 members to put up £500 spread over two years, along with some of their holiday time to be put in working on the project, well it seems to have gone in the way of other self help ideas, down into a sea of apathy. The only way would seem to be, do it myself.

There are one or two among you who feel the way I do, and I would like to take this opportunity of giving my sincere thanks to those 28 Association members who put pen to paper and wrote to me saying they would support the scheme as requested, but alas 29 of us could not tackle the amount of work and cash needed, two hundred would have been a different matter.

Perhaps the time has arrived for us to dig into our pockets and find enough money through increased subscriptions to pay a good full time National Secretary who can give all his working day travelling round golf courses to bring our Association up to 100% membership and I am sure the Secretary himself would agree it is a full time job.

The sort of finance required for this would be an annual subscription of £30, right away I can hear people saying it is too much, but consider it would cost £12.50 a year to purchase the Journal we have been advertised in our own Association.

Although short of control material placed in these adverts it seems unthinkable that we have condoned advertisements where a job is offered at less than the going rate recommended by our Association. In a situation where a man takes less than the rate for a job, he is keeping all his fellow greenkeepers years behind in trying to obtain the correct pay for work done. When I hear greenkeepers grumbling about poor pay and working conditions nearly every time it is because he took the job in the first place knowing that he was being underpaid, and what is not right in the beginning is very hard to get right later on. So to people applying for new posts, please make sure that a works contract and rates of pay are correct from the start.

Here is a name to conjure with “The Agronomist”, or in plain language someone who turns up by request, when someone has not been doing their job properly. He would not hold the power they do today in sports turf care if they had not been given a foot hold in work which should be the greenkeepers, and no one else. We seek to strengthen our position in golf and yet allow these people and many others to tell us what is right or wrong with a job that most of us spend a lifetime of our time trying to perfect. Our own members, some with 40 and 50 years in the business are the only ones who should be qualified to say what is right or not, there is no substitute for skill and expertise.

After reading one or two articles recently in golf magazines, where leading British Golf Professionals have had the audacity to ask for meetings with golf greenkeepers to air criticism and offer advice about golf course maintenance and management all I can say to them is get on with playing the game, and improving their own winning ability. Stop carping about conditions of courses, and leave it in the capable hands of the British Golf Greenkeepers who would never dream of telling them how to play golf. Golf Professionals have a very short memory, before the influx of television we had some wonderful players who got on with the job in hand and did not look around for someone to blame when their game was not quite up to scratch, and I would remind some of our present day Prima-Donna’s, they are allowed to use British Golf Courses by courtesy of members who own and pay for their up-keep, they are not there solely for a few people to forget what the game is all about and pick up large amounts of money, then go around moaning about everything in sight. What seems to always stand out about these moans are that they usually come out when their playing results are a little better than usual, you would never hear one of them say a word as they disappear into oblivion after having failed to make the final cut in one of the big tournaments. Please think about your unsung fellow Course Professionals who are the salt of the earth and never see any of the glory, they just get on with doing their job same as we do to the betterment of golf all over the world.

RAY TEMPEST
Head Greenkeeper and Chairman, Southern Section BGGA

Dear Sir,

I recently attended the lecture you gave to the Northern Section which may I add I found very interesting. During the lecture a point was raised about having a section in the journal for apprentices. I myself having just finished my apprenticeship think this could only be beneficial to beginners in greenkeeping. I should therefore like to start off with an article called “Aids to Every Helpful.”

It is just one of the many helpful and useful bits of knowledge I acquired at Askham Bryan College at York. I think it will not only benefit apprentices but also assistants.

Take a situation. The Head Greenkeeper is away for the day and one of the lads is out gangmowing and the tractor runs out of diesel. If you follow the steps given below you will find it is not all that difficult to bleed a tractor.

Your first step is to make sure the diesel tank is at least half full of diesel if the tractor has a gravity feed system on it. If the tank has diesel in it and making sure the diesel tap is actually turned off and check the sediment bowl is not full of any dirt. Having done this operation the next step is to slacken the bleed screw on top of the fuel filter. (Most tractors now have two filters). Start pumping with the small lift pump (when fitted) and continue pumping until AIR FREE fuel flows from the bleed screw. Retighten the bleed screw.

Next undo the bleed screws on the injector pump and bleed as above. Tighten the bleed nuts. Operate the starter to turn the engine over (approx one revolution). Bleed again. Tighten bleed screws. Operate starter again and repeat as necessary until all air is out of the pump.

The final operation is to slacken off one of the high pressure pipe unions. Crank the engine over with the starter motor — air will then escape. When air free fuel flows retighten the high pressure union and the cylinder “should” then fire. If not repeat by slackening a second as well as the first union again.

Once the engine speed increases above the starter motor speed the rotary pump can pump air from the remaining pipes and the engine will start.

NB. Retightening of the high pressure unions must be done with a spanner not with the fingers!

IAN C. TOMLINSON
Assistant Greenkeeper, Scarcroft GC
Tournament Triplex

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Tel. 090-64 3985 Telex 877483
Dear Editor,

Regarding the letter from the Secretary to the members for not attending the Symposium on 9 October 1979, I would draw his attention to the Sections who held their Tournaments on 8 October 1979.

1. The Midlands Section. The Chairman of this Section was the person who made most of the arrangements for the Symposium and International. Both the events were held within his Section.

2. The North West Section. The national Chairman is a member of this Section. As I understand 8 October was practice day for the International teams. I think it would have been his place as Chairman of the BGGA, the host Association, to be at the Practice Day to welcome the visiting teams. On reading the Section News I find not only the Chairman but two of the English team were not at the practice. Do players prefer to win prizes in the Section than represent the Association in the International Match. The Secretary asks Section Committees not to arrange conflicting dates. I think the people involved with the past events made the arrangements for both. I hope the Committee who will be involved in 1982 make a note of the dates and then the members may be able to support the Symposium.

On the other side I would like to thank all who were involved with the arrangements for the 1979 Symposium. It is great to know Greenkeepers travel so far to attend both the Symposium and the Golf.

A. READER

Dear Sir,

In recent weeks the BGGA has acquired a new President in Golf Professional and TV commentator, namely Mr. Peter Allis. At the time of his appointment I made objections, not to the man who seems a super guy, but because of his calling. There seems to be a storm brewing at this very moment which could be very embarrassing for him and for our Association. During the latter half of 1979 we had well known Professional Golfers moaning about the state and condition of British Golf Courses and asking for meetings and Symposiums with Golf Greenkeepers, if this letter is printed in your magazine there are one or two points I would like to make and questions I would like to ask.

1. British Golf Courses are laid down and prepared for amateur Golf Club members who pay golf greenkeepers wages, who give of their best with funds and machinery available at each particular Club. They are certainly not prepared to some magical formula that can make our Professional players beat overseas golfers.

2. Next time any of our top British golfers fail to make the halfway cut in some major tournament, perhaps the BGGA should have a meeting with them to explain the rudiments of the game and give a talk on sportsmanship.

3. Lots of people involved in the game of golf know how hard their Golf Greenkeepers work, and sometimes under very trying conditions, but the most trying condition of all is to have approximately 450 bosses who can include, Secretary, Committee men, and any well intentioned member who thinks he knows better than the Greenkeeper.

4. One other thing not mentioned very often is a sham Golf Course Architect. Lots of courses have been planned by people who know precious little about golf course construction, then when the course is passed on for maintenance to regular working golf greenkeepers, there is no blame attached to who planned the course when suddenly drainage does not work or is totally inadequate, wrong types of seed grasses sown in areas where the soil does not suit, incorrect planting of shrubs and trees. These things happening on a course in play is a very different matter than at the construction stage, it is a very costly business to put right and can take years to correct.

The answers to points raised above are very simple.

1. Be sure who ever plans a new course has the knowledge and ability required to produce a first class job.

2. Make sure that all greenkeepers from head man down are paid the correct recommended rate for the job, let him do the work he is trained to do with the minimum amount of interference, this can be done by Clubs having a liaison man instead of anyone who thinks he knows better.

The record speaks for itself, British golf courses are the envy of other countries all over the golfing world, and as a member of the BGGA I am proud to say we have the skill and expertise second to none, just let us get on with the job.

RAY TEMPEST
Head Greenkeeper and Chairman, Southern Section, BGGA

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A. READER

February 1980

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A 2-bedroom flat is available on the course, and an attractive wage is offered. Please apply stating age, experience and all relevant details to:
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- Excellent weight distribution eliminating tyre marks and compaction
- Operator comfort and ease of control including the ability to get on and off the machine from either side, making for operator efficiency
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The Jacobsen 70" Trimmer provides:
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- Power, with eight HP engine
- Operator comfort and ease of control
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February 1980
TORO TOPICS

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TORO
Kerran Daly is Head Greenkeeper at East Brighton Golf Club situated just outside the town on the Roedean Road. When he left school at 18 Kerran started his greenkeeping life at the Berkhamsted Golf Club in 1971. Moving from Hertfordshire to Brighton in 1973 he joined the Hollingbury Park Municipal course and in 1974 was made Head Greenkeeper. In that position he gained valuable experience and in 1976 took on the full responsibility as Head Greenkeeper on the privately run East Brighton Club which is an 18-hole downland course facing the Channel and is, as anyone who has been there knows, rather windy.

The Club has 475 playing members including a 75-strong ladies section. The greenkeeping staff apart from Kerran are his assistant, Tom Lynch and two apprentices B. Gibbs and L. Blunt.

Equipment owned by the Club includes:

For Greens: Toro GM3 with scarifying reels = 2 Ransomes Auto Certes. For Tees = 2 Ransomes Marquis. For Fairways and Semi-rough = 5 Trailed Ransomes gang mowers. For banks, etc = 2 Flymos, 1 Victa and 1 Paicseter Brushcutter. 2 McCormick International Tractors, one with bucket and hydraulic trailer. 1 Allman tractor-mounted sprayer. 1 Parks Professional 7-gal sprayer. 1 Cyclone Major for fertiliser. 1 Sisis trioroborake scarifier. 1 Pattissons SP aerator and for top-dressing 3 well worn shovels.

Kerran’s preference for seeds, fertilizers and top dressing is:

Insecticide—ICI Gammacol Fungicide—Synchemicals Tecto Weedkiller—Synchemicals Estemore and Cloveride Fertilizer—Fisons Greenkeeper 1 and 2 Max Hart Crumules Seed for greens Mommersteeg MM11 Seed for tees—Max Hart R8 Hartman Top-dressing—Fisons Humull and Sand

According to Kerran their main problem is one of design. It’s a very old golf course and of course the ball travels much further now. This has led to a lack of flair and excitement from the tee, and in many cases no real choice or challenge.

To combat this plans have been drawn up for the introduction of new bunkers and many of the present bunkers have been re-designed. New tee positions have been built on a few holes and some fairways have been given new outlines. This winter they will start their tree planting scheme aided by a free council grant and it is hoped that this will add to the beauty of the course and the enjoyment of the golfers.

Kerran says his greens consists almost entirely of Poa Annua. Contrary to some expert advice he finds that with sensible management, i.e. judicious fertiliser treatment at rates recommended by the STRI, watering only when really necessary, constant slitting and scarifying and top-dressing as often as money will allow, a very true, firm putting surface can be achieved. He has had no great problem with Fusarium rivale and a little extra scarification at seeding times keeps the greens pacey.

Obviously Fescue Bent greens are desirable as they are easier to produce a good finish on but Kerran believes that the average club with Poa Annua should use it to its best advantage and forget chancing disastrous invasion of Clover, Cocksfoot, Ryegrass and Yorkshire Fog by wholesale slaughter of the Poa Annua. Members are happy with the greens and so is he. The conditions, circumstances and resources of all clubs vary and no recipe can apply to them all so Kerran makes a plea for a middle of the road approach, moderation and sensible management.

He tells us he is sick and tired of being called one of the “Green Brigade” by Jim Arthur. Poa Annua gives a beautiful summer colour and he makes no apologies for that. In winter it is anything but green but can be made to wear and putt well. He feels that it is in fact the Fescue/Bent protagonists who will go through hell and high water for the sake of a better winter “colour”. 
Man versus Machines

J. H. Arthur, B.Sc.(Agric.)

Golf Course Agronomist – Landscaping Consultant

I still find considerable confusion of thought on the subject of the mechanisation of greenkeeping operations. All too often the same attitude is expressed as that of the Green Committee at one small Scottish Club where they decided to buy a triplex mower and not replace the eldest of a fairly mature team of three looking after 18 holes — admittedly links are no so arduous to run, but needing a great deal more skill. The Head Greenkeeper, whose reaction was predictable, was asked if he had a better suggestion. He had! It was to “buy two more of yon machines and then you will not need any greenkeeping staff at all”!

To those controlling purse strings and policies, I can only ask them to understand that machines never save men on a golf course — they only save time. Primarily machines enable work to be done more quickly so that essential greenkeeping operations are kept ahead of play, thus minimising interference with members’ enjoyment of their round. It is, however, far more important that play does not interfere with the essential tasks of looking after the course. Nothing is more frustrating to greenkeeping staff saddled with chronically slow and out of date machinery than to have to constantly stop and let play through — in the end even the most obdurate will falter and the task is postponed.

Perhaps the major justification for pop-up irrigation is that it stop the members interfering with the watering — even more so than the obvious advantages of night watering, saving of water and permitting play to proceed without the annoyance of hoses and sprinklers on putting surfaces.

Another justification for mechanisation is that it permits operations being carried out on an intensive basis, which would otherwise never get carried out at all. Many clubs use triplex mowers merely to carry out weekly verti-cutting through the whole of the growing season. This is quite impossible without verti-cut reels.

But perhaps the most cogent reason for the more intensive mechanisation is the fact that vastly more golf is played today than ever before and this trend is predictably going to increase. To quote one of my long term budgetary forecasts for a major Scottish club (made with a trace more seriousness than it may seem) “in five years time we may have four million unemployed half of them playing golf”.

This greater intensity of play has many effects. Primarily there is much more wear — and especially much more compaction. Players’ feet — and trolleys — do not cause manorial deficiencies but they do cause consolidation, which demands much more intensive aeration.

But, whereas in the old days, when one hardly saw a golfer on the course from late October until spring and it was possible to carry out an autumn and winter programme on a controlled and leisurely basis, nowadays there is almost more golf played in winter on some courses than in summer. As a result, greenkeeping operations have to be carried out under less and less satisfactory conditions, forced further and further into the winter and appalling weather conditions by the extension of the golfing calendar at both ends of the season.

This is the reason for the spectacular success of the Cushman equipment — now to be followed by a Sisis equivalent, with even deeper penetration. Not only can these machines aerate a green in about four minutes but with an early start all greens can be aerated, weekly if necessary and certainly fortnightly and be back in the shed before any player has seen them in operation.

Furthermore, the top dressing equipment on these machines enables an entirely new approach to top dressing to be implemented. Increasingly, later and later top dressing under wet conditions has caused problems with smeared muddy surfaces, thinning out of turf density and encouragement of fusarium patch disease. With a top dressing unit, it is feasible to top dress throughout the growing season under ideal conditions for quick absorption provided you have a very finely screened, grit-free “compost” and can brush it in mechanically.

On another tack, with more and more sophisticated machines we need more skilled staff and many clubs find a considerable saving, not so much in money as in saved working hours for vital and expensive machines, by better maintenance and quick repairs in situ, made possible by employing a skilled greenkeeper mechanic. It is not so much the cost but the loss of machines for days in being collected, repaired and delivered, when a timely on-the-spot repair could often get it back in action in a few hours.

Beware then of the fallacy that a new machine can save a man. All too often I find situations where there are more machines than drivers. We must release staff for training. They are entitled to holidays, even at times which are inconvenient to the club, and even the fittest greenkeepers can suffer sickness and accident.

Finally, the standards of presentation of golf courses today is always set higher and higher and without men you cannot cope. Even mechanised bunker raking needs a back up by hand finishing. To those who quote the US as being light years ahead of us in greenkeeping, I would remind them that some US subscriptions are in the $1,000 per annum level and staffing with two or three men and a Cushman per hole — and this is an entirely different ball game.

An Extraordinary Meeting of the BGGA will be held at the Griffin Hotel, Boar Lane, Leeds 1, at 12 noon on Tuesday, 25 March 1980, to consider and approve an increase in members’ subscriptions as follows:

- Class A — From £9 to £12
- B — £6 to £8
- C — £5 to £7
- D + E — At discretion of individual Sections

Golf Greenkeeping and Course Maintenance
Keep that roller chain rolling

Words: VIC MOORE
Illustrations: RICK CURTHOYS

THE roller chain needs more care and attention than other types of chain used on farm machinery. It has two precisely made bearings at the end of each link (figure 1). One is between the outside of the pin and the inside of the bush; the other between the outside of the bush and the inside of the roller.

Main causes of premature wear are:

Lack of lubrication: Red rust on a chain is a sign of deterioration due to lack of lubrication. As links will not be equally starved of lubricant, the wear in each link joints will vary causing the operation of the chain to become even more rough. A poorly lubricated chain is likely to become noisy and hot. Eventually it will start to break up due to "galling", a process whereby the surfaces of the hardened pins and bushes can become welded together.

Misaligned sprockets: The chain will rub the sides of the sprocket teeth causing wear to teeth and chain, and the chain joints will be put under great strain due to the chain twist. The two sprocket shafts must be parallel and the faces of the sprockets must be in line (figures 2 and 3). The straight edge must touch the leading and trailing edge of both sprocket wheels at the same time.

Worn sprockets: Never fit a new chain on to a worn sprocket. Main type of sprocket wear is "hooking" of the teeth (figure 4). The driving sprocket tries to wrap the chain around itself and rapidly wears the chain. On some machines the sprockets can be reversed so that both faces of the teeth may be used. But this must be done before the teeth wear too much or else they will tend to bend under load. The amount of tolerable wear on a sprocket depends upon speed and load. As these increase, the allowable tooth deformation decreases.

New links for old chains: A common mistake is to use a new link or section of links to repair a stretched chain. This also applies to the use of a new joining-link on an old worn chain. It subjects the chain to a shock load every time the new link or links engage the sprocket. In a surprisingly short time this shock load will cause the whole chain to deteriorate. As a general rule, a single-pitch roller chain—one with a pitch the same as the sprocket on which it is used—should not stretch more than about 2 per cent before it is replaced. A double-pitch chain—the pitch is twice that of the sprocket—can only be permitted to stretch to 1.5 per cent before replacement because it has only half as many joints to wear, compared with a single-pitch chain.

There are two methods of measuring chain stretch:

1. Compare it with a new chain: A 2 per cent stretch is one link in 50 or a half a link in 25. When 25 links of the chain being tested are laid alongside 25 links of a new chain and both chains are pulled tight, the old one must not be more than half a link longer than the new one. If it is, it has stretched too much and may well damage a good sprocket.

2. Measure the length: Pull the chain tight and compare the actual length over 25 or 50 links with the theoretical length. The 50 links of a half-pitch chain must not measure more than 25½in, because an extension of ½in in 25in is equal to a 2 per cent stretch.

CHAIN CARE

Tension: Chains which are too loose are noisy and whip, which causes shock loads. An over-tensioned chain will wear rapidly due to the extra stress on all its parts and may strain the sprocket shaft bearings.

Correct chain tension varies according to the machine. As a general guide the movement of a well-adjusted chain in its slack side should be equal to 2 per cent or 3 per cent of the distance between the sprocket centres. For instance, when the chain sprockets are 40in apart, the chain should have about ¾in to 1½in of slack.

To check tension, pull one side of a chain tight so that all the slack is on the opposite side of the chain, then place a straight edge along the slack side and measure the amount of slack at the middle of the chain (figure 5). Tension should be checked several times with the sprockets in different positions to allow for incorrect sprocket manufacture.

Lubrication: Often a chain is "lubricated" by having an oil-can squirted at it while in motion. The main outcome is that oil is transferred from the can to the outside of the chain, and from there back to the holder of the oil-can. Little chain lubrication occurs.

Oil must be made to penetrate into the rollers. Chains which do not have a constant supply of oil from an oil bath, or drip, should be removed from the machine, washed in clean diesel fuel or paraffin and soaked in chain oil for an hour or so. Better still, soak the chain in warmed oil or a chain lubricant. Where possible, move the chain while it is soaking to help oil penetrate the chain joints. Remove excess lubricant from the outside of the chain before refitting.

Fittings: Always fit the circlip or split pins so that they travel with the closed edge leading.

Figure 1: The roller chain has two precisely made bearings at the end of each link.

Figure 2 (left) and Figure 3 (right): Checking for misaligned sprockets. The two sprocket shafts must be parallel and the faces of the sprockets must be in line.
Sisis did us very well the same evening by providing supper and a drink and we all received publications of the varied but good equipment.

December meeting was a joint one with the Teeside branch of the Institute of Groundsmanship, held at Middlesbrough Cricket Club, Acklam Park, where we were entertained by Fewsters of Darlington, machinery suppliers, also Marshall Concessionaires. We saw Marshall films of turf maintenance machinery, aerators, sub airs, scarifiers and cutters of various types. The Turf Cat looks extremely manoeuvrable. The Jacobsen Green-King also looked very good. Our thanks to Derek Coad of Marshalls and Barry Harker from Fewsters. Again we were treated to refreshments. Thank you, gentlemen. These two gentlemen provided two bottles of whisky and sherry which were raffled and proceeds shared between Greenkeeper and Groundsmen funds. Barry Harker has volunteered to type our newsletter and post them to all our members. We thank you, Barry.

The programme for the new year is:
14 January, a visit to Brian Sken's new premises at Bentley Avenue, Cowpen Lane, Billingham.
1 February, Autoturficare talk and film with Mr Ian Patterson, North Regional Manager, successor to Jack Cogan; also coming is Mr Neil Eaves, the manager of Autoturficare, Faeravale, Darlington assembly factory.
17 March, a visit from Chipmans of Derby, showing us their sand slitting techniques of greens in particular, also informing us of their new cell system.
Meetings held at Middlesbrough Municipal GC, Ladgate Lane, Middlesbrough, all starting at 7.30 pm.
24 April, Thursday, 1 pm. 18-hole golf tournament at Eaglescliffe GC.

Officials:
President: W. J. Burtt
Chairman: J. B. Burnell
Secretary: J. B. Burnell
Treasurer: G. Malcolm
Committee: H. Lees, R. Shaw, K. Beck, B. Coatsworth, C. Atkinson
Vice-Presidents: Tony Chambers, Brian Sken

This is the first news from a new Section. Monthly meetings have been held since September. Mommersteeg rep. Danny Godfrey was our first excellent speaker and the new turf samples of Mommersteeg's Bravura were most impressive.

In October we held our Autumn 18-hole golf tournament at Darlington (Haughton) Golf Club. Course manager Roger Shaw had the course in excellent condition. Twenty-four prizes were kindly donated by the trade and golf clubs. The winner of the cup donated by Marshall Concessionaires and the Ransome Gold Watch was Alan Gilbraith. Head Greenkeeper at Richmond GC. The prizes were presented by Mr Robson, Darlington (Haughton) GC, Captain. Scorecards dealt with by Bob Bevan and Bill Butt.

The same day, 16 October, Lloyds of Letchworth demonstrated their gang mowers and hand motor mowers. This proved excellent and was enjoyed by 60 greenkeepers and committee men.

12 November Sisis entertained us with some excellent slides and talk very well put over by their new rep. for this area. Terry Charlton from Chester-le-Street, Co Durham, who has taken over since the retirement on 31 July of Bill Butt, who was a friend to all groundsmen and greenkeepers with his friendly manner and courteousness and interest in our work to provide good playing surfaces. We are delighted that Bill has agreed to be our first President.

SOUTHERN

Chairman: R. TEMPEST
Secretary: D. GOULD
Langley Park G.C.
Beckenham Kent.

Winter Lecture
Unfortunately our speaker for the December lecture was ill and could not attend and so a general discussion was held with our President, David Craig, in the chair. Many issues were discussed ranging from greens committees to the training schemes for young greenkeepers.

Conspicuous by his absence at the past couple of lectures has been our "ace" raffle ticket seller Ronzo Ryan. I understand that Ronzo has had a lot of vandalism on his greens. He has had his greens sub-aerated and the young thugs have found it easy to tear-up strips of turf. Anyway, Ronzo has been out on the course during the last two lectures with the police trying to catch the culprits and we hope they have been successful and given them good kick up the . . .!!

The March lecture is on Wednesday 5th.

Annual Dinner
Don't forget this is on Friday, 14 March at Walton Heath GC. Tickets from Derek Gould — price £7. Golf from 12 noon onwards. Bring a guest.

On a personal note, I would like to wish my first assistant, Bernard Findlay, the best of luck in his new position of Head Greenkeeper at the Black Swan GC, Wokingham. We're just about managing without you at Croham, Bernard! So all the best.

I hear that Archie Creese is in hospital. Hope it's not too serious Archie and that you'll be

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Well here we are again in another New Year. Time flies and looking forward to the lighter evenings. My wife is busy dusting off my clubs, cleaning my golf shoes, oiling my umbrella, dipping all my best golf balls in bleach bless her. West Sussex clubs. It looks as if John is throwing down the gauntlet and taking on the challenge. John told me recently that he has met the challenges of being Secretary.

Many thanks to my friends for their Christmas and New Year greetings sent to my wife and I. Peg sends a big thank you. We couldn’t afford the postage to send everyone a card so through my notes thank you. It’s one of the perks of being Secretary.

All members will be pleased to hear Chris Keen’s wife gave birth to a bouncing girl over 8 lb. As you know, Chris was unable to attend some meetings because of her confinement. Congratulations to Chris and Elizabeth. So it looks as if Tandridge have another budding star to watch. Back to our business. I hear John Bishop is buying a new set of golf clubs. It looks as if John is throwing down the gauntlet. We shall have to be on our toes at our Spring meeting at East Brighton Golf Club on Thursday, 24 April. Andre Cornhill will be sending out notes shortly for all members wishing to play in the Spring Tournament.

However, getting back to the business of the day we have John Shaw of Hugh Page Ltd giving a talk on machinery on 16 January at the Ugly Duckling, 7.30. On 20 February we have Mr Hawtree from Addington Court Golf Club, the well known golf course architect, to give a talk on golf course construction. Don’t forget to give some thought to our trip to Ransomes in October. Let me know at our meetings if you would like to go. I will be getting a list up. Twenty is the number I am looking for so don’t blame me if you are disappointed.

Peter Bacon of Worthing Golf Club has changed his address. May we wish Peter all happiness in his new home.

Spring Tournament — Make a note of the date. WEDNESDAY, 14 MAY at Porters Park GC, Radlett, Herts. Details in next month’s journal.

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February 1980
SHEFFIELD

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Comp. Secretary: P. QUARTERMAINE
Hon. Sec./Treasurer: B. V. LAX
15 Sheaf Place
Worksop Notts S81 7LE

There's not a lot to report at this time of year, our lecture meetings are now well under way and I am pleased to say that they are very well attended.

The first of our lectures was given by Mr M. Jones from the Lancashire College of Agriculture. He illustrated his talk with some slides, some of which were taken on several American courses he had visited. Mr Jones gave some details of methods, equipment, wages, subs, etc, at the courses in question and proved, I think, that in the US they are way in front of us in every aspect. Some very interesting theories and observations came out of Mr Jones' talk, regarding the construction and maintenance of golf courses, a lot of those present were pleased to hear that all the experts don't follow the same lines regarding the treatment of golf greens.

Many thanks to Mr Jones for a very enjoyable talk, also for all his ideas and information that he gave to members afterwards.

6 December saw a visit to our meeting by Mr B. C. Clayton, chief advisory officer from the STRI, Bingley. Unfortunately I was ill and unable to attend but from reports by those present, as usual for someone from the STRI, Mr Clayton gave a first class talk on the "do's and don'ts" of fertilizer, water, etc, again proving that all the experts don't agree.

Our thanks to both Mr Clayton and the STRI, Bingley.

Don't forget our "Open Forum" at Lindrick GC on 6 March at 3 pm, come along and air your views and ideas.

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Golf Greenkeeping and Course Maintenance
I must also remind you all of the details of the Spring Dinner Dance to be held at the Mean Valley Golf and Country Club on Friday, 11 April 1980; 7.30 for 8 pm dinner and dancing to the Ronnie Horler Band; tickets (£7 each) are obtainable from me direct or at the March lecture meeting. I hope you will all make the effort to attend this function, the date of which has been switched from December in the hope that many more greenkeepers and their wives / girlfriends will take the opportunity to come and enjoy themselves.

I am pleased to welcome Mr N. Stainer of Ashley Wood GC, Dorset, as a member and I hope his association with us will be a long and happy one.

Finally, I would like to thank you all for your very much indeed for the generous cheque which Eric gave me, and to thank him for his very nice letter of appreciation. Such kind words make all the hard work well worthwhile, especially at a time like this when I am sat at my typewriter under the influence of . . . aspirins and cough mixture and in a state of near collapse!

I wish you all Good Health and Happiness in 1980, and I very much hope that the Association will achieve all its aims during the next decade.

MID ANGLIA

Chairman
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2 Greenkeepers Cottage
Ashridge Golf Club
Berkhamsted
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Tel: Huntingdon 213348

Very little news to report for this month, things always seem quiet this time of year. I for one will still be quietly recovering from the festivities of Christmas and New Year. However I have one piece of news for you concerning our Spring Tournament.

This as you will have seen from the January Journal has been fixed for: MONDAY, 14 APRIL, at 2 pm. JOHN O'GAUNT GOLF CLUB, SHUTTLE PARK, SANDY, BEDS. The club is situated on the POTTON-BIGGLESWADE ROAD.

Would all of you who wish to attend that day, and play, let me know by 1 April. Should you wish to come, and not play, please also let me know so I have an idea of numbers to cater for.

From past experience it appears that we get through heaps of sandwiches and if I have some idea of numbers you wont starve.

Don't forget Monday, 10 March when at 2 pm Cannock Fertilizers are giving us a talk in the Old Clubhouse at Woburn Golf & Country Club.

At the time of my writing this article; I see that our numbers have increased to 36 new members, and following the December issue of the Journal I would like to welcome the following:

M. Labram - Bedford & County Golf Club;
P. Lockett - Warden Hill Golf Club;
F. M. Overson - Oundle Golf Club;
M. J. Payne - St Neots Golf Club;
S. Phillips - Chesham & Ley Hill Golf Club;
F. F. Pratt - Little Hay Golf Course;
K. R. Stanton - Mowsbury Park Golf Club.

BEDS, BERKS, & OXON.

Again I have pleasure in writing on behalf of the Committee. First the meeting at Maidenhead Golf Club. The President, Mr Walker, invited all Club Secretaries and Head Greenkeepers who have donated or are members of the Section.

After a round of golf we were the guests of Mr Walker for a drink followed by lunch. After lunch a very interesting meeting took place. Mr Walker will send minutes to all interested, then a follow up meeting when it is hoped to have more Clubs attending. On behalf of all who were at Maidenhead I thank Mr Walker.

The 27 November was the first lecture at Calcot Park when 30 members enjoyed an interesting talk given by Mr Jenkins. Many questions were asked which added to the interest. We hope to have the same numbers plus more at the next meetings. A date to put in your mind is 16 February when we will be holding a Dinner Dance at Maidenhead Golf Club. Numbers are limited to 70 so contact P. Taylor for your tickets now. We hope you will all enjoy the evening.

It is good to know the Section now has 96 members and I am sure we can make it 100 before long. If you know anyone who is not yet a member please bring him along in the hope he will join. Again I appeal for some members to write an article for the magazine, someone must have something to say and I am sure you can all write.

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The College is to provide a short study course for College Lecturers, Training Officers, Architects, etc, wishing in-depth and up-dating instruction in construction systems and the maintenance of golf courses.

For details of the course write to: The Principal Agricultural Officer, Lancashire College of Agriculture, Myerscough Hall, Bisborton, Nr Preston PR3 0RY.

Head Greenkeeper required by Crewse Hill GC

Applications are invited for the above post from persons of proven ability and experience in the maintenance of an 18-hole course with automatic watering system and modern golf course machinery.

The ability to manage Green Staff is important. Free accommodation available. Salary negotiable. Apply in writing, giving full details of age, experience, etc, to:

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Enfield, Middx

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Set of Gang Mowers

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Wetherby 62714 or Leeds 663273
In the match we have been lucky to be welcomed by Chorlton-cum-Hardy Golf Club, Manchester, right by the banks of the River Mersey, and Head Greenkeeper Bill Kenrick will be already preparing for Thursday, 29 May, if I know Bill. I would like any members of the team who travelled to Ickley Golf Club last year to contact me if they would like to play again this year, as I appreciate the costs of playing away.

Then we have the National Tournament at Minehead Golf Club, Somerset, on 18, 19 and 20 August, a super venue to incorporate your holidays.

In our Autumn Tournament we have been successful in receiving the courtesy of Haydock Park Golf Club on Thursday, 9 October. Unfortunately for all gambling members there is no race meeting that day but even I would not gamble on Head Greenkeeper Barry Gregson being too far away from the coveted Ransomes watch.

A great year's golf in prospect so let's have wonderful entries, and remember at all times fly the BGG A flag high. That's all from me for now, let the best man win but most of all enjoy it!

Looking Ahead
As the Spring draws nearer we will soon be cleaning our clubs and shoes ready for the forthcoming golfing season. We have some great courses to play on during the season starting with a great favourite of mine Prestbury Golf Club, Cheshire. We will be playing for the "Sisix" Trophy and as defending champion I shall be doing my best to retain it (fighting talk). I even think we will be able to get Head Greenkeeper John Leonard out playing that day and he is a bit of a dark horse so there should be a great day's golf on Thursday, 17 April. Entry cards will soon be available.

Then a couple of weeks later on Monday 12 May we move to another of Cheshire's great golf courses, Sandiway, for our Spring Tournament. Their Head Greenkeeper Lawrence Pitie, successful at Warrington in the Autumn Tournament, will be out to do well and he will be the one to beat, but as usual a great day will be assured.

This year we will be playing host for the Annual "Battle of the Roses" match against the Northern Section.
COURSE EQUIPMENT AND SERVICES

ARTIFICIAL GRASS
The Greensward Company, The Old Hall, Langham, Oakham, Rutland, Leicestershire LE15 7JE. Tel: Oakham (0572) 2923 & 56031. Telex: 34362 Greeco G.

BUNKER RAKES
CHELWOOD range of specially designed Bunker Rakes including the Motspur Park award winner. Contact your local dealer or: Chelwood Tool Company, Chelwood House, Thornbury, Bristol. Telephone: Thornbury (0454) 413806 for list.

COMPLETE GOLF COURSE SUPPLY
T. Parker & Sons (Turf Management) Ltd, Worcester Park, Surrey. Tel: 01-337 7751. Contact: R. F. Cook.

COMPOST/PEAT PRODUCTS
Fisons Limited, Horticulture Division, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ. Tel: Ipswich (0473) 830492. Contact: Professional Horticulture Department.

DRAINAGE TUBE AND PIPES
Lamflex PVC Flexible — 52mm, 60mm, 80mm, 110mm in 100-200mm lengths. Manfd by Critchley Bros Ltd, Brimscombe, Stroud, Glos. Brimscombe 2451.

ELEVATORS
Joseph Bentley Ltd, Barrow-on-Humber, South Humberside. Tel: Barrow-on-Humber (0469) 30501.

FERTILIZERS
Joseph Bentley Ltd, Barrow-on-Humber, South Humberside. Tel: Barrow-on-Humber (0469) 30501.

FERTILIZERS & TOP DRESSINGS
Chipman Ltd, Horsham 60341, Mr R Wadlow.

GOLF COURSE ARCHITECTS
Members, British Association of Golf Course Architects.

GOLF COURSE CONSTRUCTION
Comtec (UK) Ltd, Leywood House, Groombridge, Tunbridge Wells, Kent. Tel: Groombridge (0832) 276 581 or 722.

GOLF COURSE ACCESSORIES
Autoturfcare Ltd, Sales, 2 Ladymead, Guildford GU1 1DL, Tel: 0483 38444. Sole UK distributors for Standard Golf equipment.

GENKIRK LTD
The Nursery, Paice's Hill, Aldermaston, Reading RG7 4RG. Tel: Tadley 6181 and 6111.

GOLF COURSE CONSTRUCTION
Comtec (UK) Ltd, Leywood House, Groombridge, Tunbridge Wells, Kent. Tel: Groombridge (0832) 276 581 or 722.

Golf Construction Ltd, Golf House, Wood Street, Stratford-upon-Avon, Warwickshire CV37 6JE, Tel: Stratford-upon-Avon (0789) 69783 or 69292.

Golf Landscapes Limited, Ashwells Road, Bentley, Brentwood, Essex. Tel: 0277 73720. Land Unit Construction, Camden House, Kenilworth, Warwickshire, Tel: 0926 59241, also at Milton Keynes 510414. Contact: Bob Blyth.

Golf Construction Ltd, The Golf and Country Club, Old Thorwn Farm, Lipshock, Hampshire GU30 7PE. Tel: Lipshock (0426) 724402.

Stewart Landscapes Ltd, Carmunnock Nurseries, Pedmyre Lane, Carmunnock, Glasgow G76 9EL. Tel: 041-644 3523 (3 lines).

February 1980
GRASS CUTTING EQUIPMENT

Sisis Equipment (Macclesfield) Ltd, Shorelough Works, Hulley Road, Macclesfield, Cheshire SK10 2LZ. Tel: Macclesfield 26363.

Contact: Mr G. R. Lackford.

GRASS MAINTENANCE EQUIPMENT


Contact Mr G. R. Lackford.

Sisis Centre in Scotland: 52/58 Causewayhead, Humber Manures Ltd, PO Box 27, Stoneferry, Hull HU8 8DQ. Tel: 0482 20458.

Contact: Gerald Moxon.

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Autoturfcare Ltd

Sales: 2 Ladymade, Guildford GU1 1DL. Tel: 0483 38444. Telex: 853986.


Sole UK distributors for Toro, Gravely and Industrial Estate, Darlington, Co Durham. Tel: 0325 54411.

Contact: Frank Gerson.

Cannock Fertilizers Ltd. Cannock, Cannock Fertilizers Ltd. Cannock, Staffs WS11 3LW. Tel: Cannock 2727.

Contact: G. S. Taylor.

Between 2 meter 6E5. Tel: Wellingborough (0933) 680674. Telex: 587182.

Sole London dealers for Toro and Grass Gravelly.

GRASS SEED

British Seed Houses Ltd, 37 Five Mile Drive, Cannock Fertilizers Ltd. Cannock. Staffs WS11 3LW Tel: Cannock 2727.

Contact: Frank Gerson.

Autoturfcare Ltd

Sales: 2 Ladymade, Guildford GU1 1DL. Tel: 0483 38444. Telex: 853986.


Sole UK distributors for Toro, Gravely and Industrial Estate, Darlington, Co Durham. Tel: 0325 54411.

Contact: Frank Gerson.

Supidurf Products Ltd. Oxney Road, Peterborough PEI 1YZ. Tel: Peterborough (0733) 684010.

Contact: David Palmer.

Fisons Limited, Horticulture Division, Paper Mill Lane, Bramley Works, Ipswich, Suffolk IP8 4BZ. Tel: Ipswich (0473) 830492.

Contact: Professional Horticulture Department.


Miln Marsters Group Ltd.

Chester. Tel: Chester 232435.

King’s Lynn. Tel: King’s Lynn 3911.

Mommerteg International, Station Road, Finedon, Wellington, Northants NN9 5NT. Tel: Wellingborough (0933) 680674. Telex: 311234.

Rigby Taylor Ltd, Victoria Works, Garwood Street, Bolton BL1 4AE. Tel: Bolton 389888.

Suttons Seeds Ltd, Hele Road, Torquay. Tel: Torquay 60211.

Contact: R. W. Palin.

GRASS SEED — WHOLESALE

Goldsmith Brothers Ltd, Bury St Edmunds. Tel: 3401. Sole UK agents for Barenbrug Grasses.

GRASS SEEDCUTTING EQUIPMENT

W. W. Johnson & Son Ltd, Stells Lane, Boston, Lincs. Tel: 0205 6501.

Contact: G. J. Taylor.

J. Picard & Co (Seed Merchants) Ltd, 19/21 Great Tower Street, London EC3R 5AQ. Tel: 01-626 2051. Also at Uckfield, Ellesmere Port, Avonmouth and Hull.

IRRIGATION EQUIPMENT

Perrot Irrigation Ltd. 38 High Street, Row-hedge, Chester. Tel: (020628) 624. PERROT for Pop-ups and full range of Sprinklers.

Cameron Irrigation Company Limited, Harwood Farm, Harwood, Littlehampton, West Sussex BN17 7BA. Tel: 09064 3985. Telex: 877483.

Contact: Mr Robin Hunter.

Toro Irrigation Ltd, Unit 7, Millstream Trading Estate, Christchurch Road, Ringwood, Hants BH24 3SD. Tel: Ringwood 6261/2.

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Comtec (UK) Ltd, Leywoods House, Groombridge, Tunbridge Wells, Kent. Tel: Groombridge (089 276) 581 or 722.

Wrights of Trumpington Limited, 14 The Manor, Trumpington, Cambridge CB4 4QB. Tel: Cambridge (089 276) 581 or 722.

Contact: Mr C. E Wyatt (Managing Director).

MANURES

Humber Manures Ltd, PO Box 27, Stoneferry, Hull HU8 8DQ. Tel: 0482 20458.

Contact: Gerald Moxon.

MOWERS

Autoturfcare Ltd.

Sales: 2 Ladymade, Guildford GU1 1DL. Tel: 0483 38444. Telex: 853986.


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Turf Machinery (London) Ltd

Sales: 2 Ladymade, Guildford GU1 1DL. Tel: 0483 38232.

Service & Parts: 65/67 Hadgen Lane, Watford. Herts WD1 8NB. Tel: Watford (0923) 26339 and 20480.

Sole London dealers for Toro and Gravelly.

MOWERS — ROTARY

Victra (UK) Ltd, Rutherford, Daneshill West, Basingstoke, Hants RG OG Y. Tel: Basingstoke (0256) 53001.

MOWERS (SALES — SERVICE — SPARES)

Parker & Ballinger Ltd., 71 Hill Village Road, Four Oaks, Sutton Coldfield, West Midlands B75 5BH. Tel: 021-306 6888.

ORGANIC & COMPOUND FERTILIZERS


Contact: Golf Course Sections (Parks and Sports Grounds).

PEAT

Bord na Mona — Irish Peat Development Authority, 36 King Street, Bristol BS1 4DP. Splagnthem Moss — All Grades.

Contact: Douglas Bourne.

Fisons Limited, Horticulture Division, Paper Mill Lane, Bramley Works, Ipswich, Suffolk IP8 4BZ. Tel: Ipswich (0473) 830492.

Contact: Professional Horticulture Department.

In addition to their normal Peat products, R. A. Watts Ltd are now marketing Lignite. In view of the current shortage of Moss Peat, why not try lignite as an extender to peat-based composts? Lignite is a naturally occurring organic material with a high carbon exchange capacity. Supplied in moisture-controlled form in 25 kg net polythene bags. For further information and prices, contact R. A. Watts Ltd, 36/38 Woodcote Road, Wetherby. Tel: 01-647 1073/74.

PEAT — BULK

Banks Horticultural Products Ltd., 36 High Street, Market Harborough, Leics LE16 7NL. Tel: Market Harborough 64346.

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