

the Golf Course

APRIL 1988

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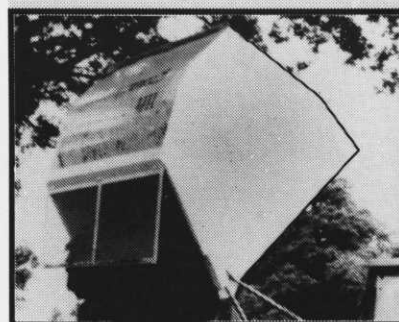
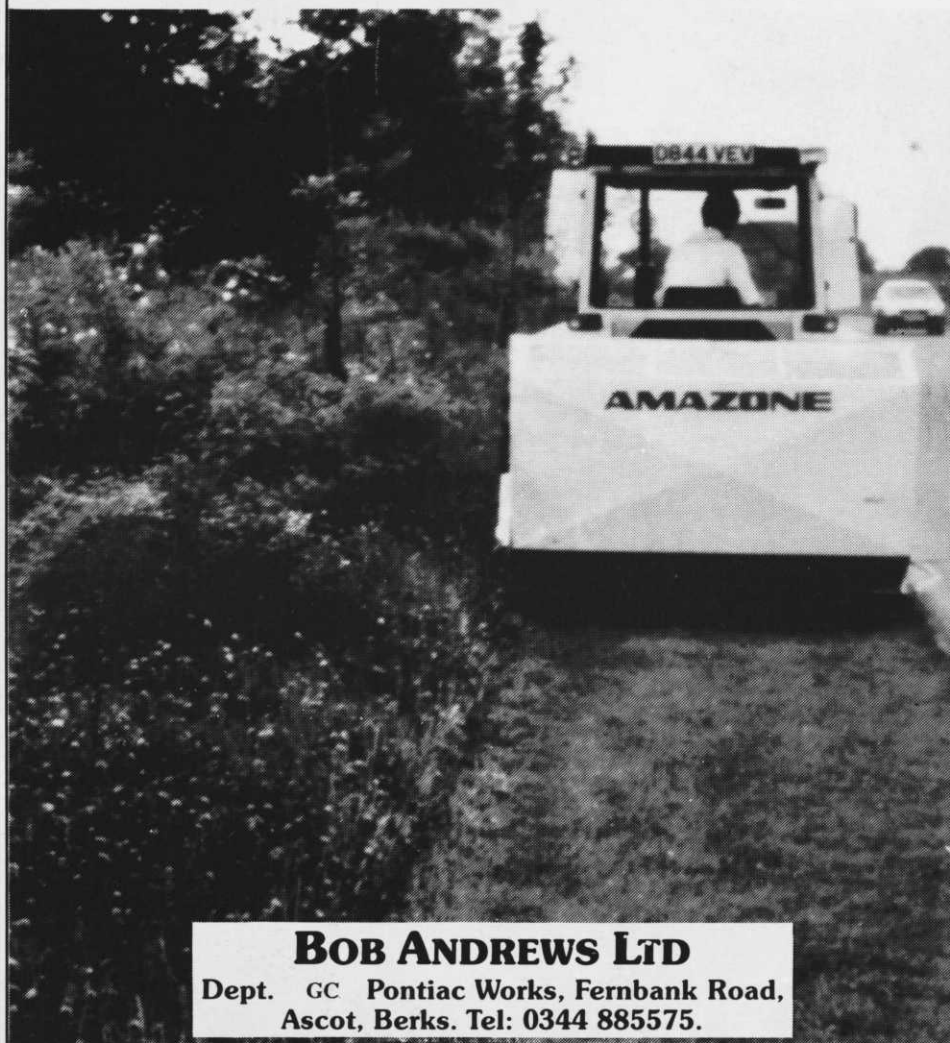
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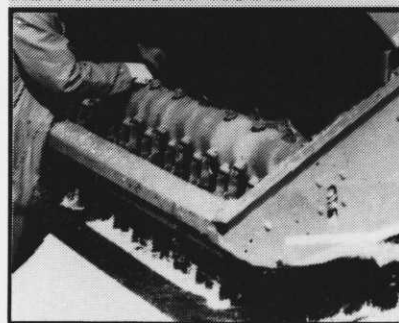
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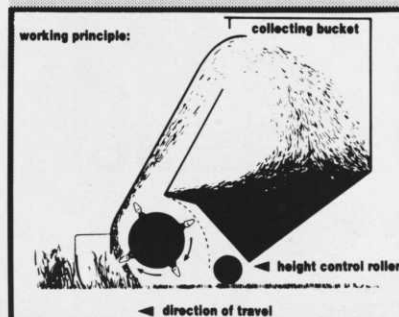
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BIGGA UPDATE

It is a great pleasure to begin this month's UPDATE by informing members that your Board of Management recently invited the Rt. Hon. Viscount Whitelaw CH. MC to accept the Presidency of the Association. He has responded by stating that he would be very honoured to accept the invitation. As a pre-eminent politician and with his deep involvement within the game of golf, being a former Captain of the Royal and Ancient Golf Club of St Andrews and a

leading amateur in his younger days, we are indeed privileged to have Viscount Whitelaw as our President.

National Tournament / International Conference

As an insert to this edition of the magazine, you will find full details for the week in Ayrshire, 26th - 30th September. Following my recent meeting with the Scottish Region sub-committee organising the event, the finalising of arrangements is now well in hand.

Members are advised to register with Chris Kennedy as soon as possible as naturally it will be a case of first come first served, particularly in respect of accommodation, tournament entries and starting times.

Uniform

I am pleased to announce that all items of uniform are now in production. Members are advised that current prices are

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Umbrellas

BIGGA umbrellas are now available. They are in red, white and blue and incorporate two prints of the Association logo. The umbrellas priced at £8.96 inclusive of VAT. Again all orders please to your Section Secretary.

Section Secretaries

Please note that Mr RJ Goodwin, Ashridge Golf Club, Berkhamsted, Herts HP4 1LU is the new Mid-Anglia Secretary - telephone Little Gaddesden (044284) 2434. Also, members should note

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the Golf Course

APRIL 1988

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that Mr R Willars, Secretary, East Midlands, Section advises that his correct tel: number is (0455) 283053.

GCSAA Conference and Show 1989

The next GCSAA Conference and Show will be held in Anaheim, California 1st-8th February 1989. Each year a number of BIGGA members make the trip and it occurs to me that, with the establishing of the new Association, consideration should now be given to members attending as part of an official BIGGA party rather than through the present adhoc arrangements. To this end, it should be possible to negotiate a favourable package through a travel agent. before proceeding however, I would be grateful if interested members could advise me in the next week or two in order that I can have an idea of possible numbers.

Seminars

It is encouraging that the recent round of seminars have been so successful. Although I was not able to be present, I understand that the South West Region seminar on 9th March was well attended and proved an informative day. Full marks to the South West Region - they have already held two regional seminars and given an early impetus to the new Regional structure.

On 15th March, I chaired the first Scottish Region Seminar under BIGGA auspices at the Countryside Commission Headquarters in Battleby, Perthshire and again this was a well-attended day enjoyed by all. The facilities were superb. For myself, these events represent an ideal opportunity to meet members and I learn much from the subject areas covered.

Moving down from Scotland to Cheshire. I was one of the speakers at the by now well-established North West Section annual seminar at Mere

on 17th March. Those present enjoyed well presented papers from speakers covering a number of diversified subjects.

Legal advice service

These brief notes will, I hope, clarify a few matters for members. It should be noted that the Legal Advice Scheme is NOT confined to advice in connection with employment problems. It is available to cover any legal problem a member may experience in either his working or private life.

Again, it should be noted that a major advantage of the scheme is that its benefits are automatically extended to each individual eligible member's immediate family - this being defined as the member's spouse and any children or relatives permanently residing with the member.

It is already clear that a number of members have benefited from the services available, particularly in employment situations. One Scottish member, recently made redundant, could not obtain any reason for the redundancy from his Golf Club. He has been involved in Greenkeeping for 23 years and feared that without reasons being given for the redundancy, he would experience difficulty in obtaining new employment. The Legal Protection Group intervened on his behalf and the reasons for the redundancy have now been given in writing. The reasons were valid and in no way reflected any incompetence or fault on the part of the member. The case has a happy ending as consequently the member writes to say that he has obtained a good job at another Club with which he is very happy.

It will be helpful in monitoring this Service if other members using it could write to me with their own experiences.

Neil Thomas
EXECUTIVE DIRECTOR

BIGGA Annual General Meeting

The AGM of the Association took place at York race-course on Wednesday 23rd March. The meeting was well attended and a considerable amount of Association business concluded, including amendments to the constitution.

The meeting was chaired by outgoing chairman Walter Woods and addressed by Neil Thomas Executive Director, Kevin Munt (Regions), Bill Lawson (Magazine) and Cecil George (Education).

A full report of the proceedings will appear in the next issue of the **Golf Course**.



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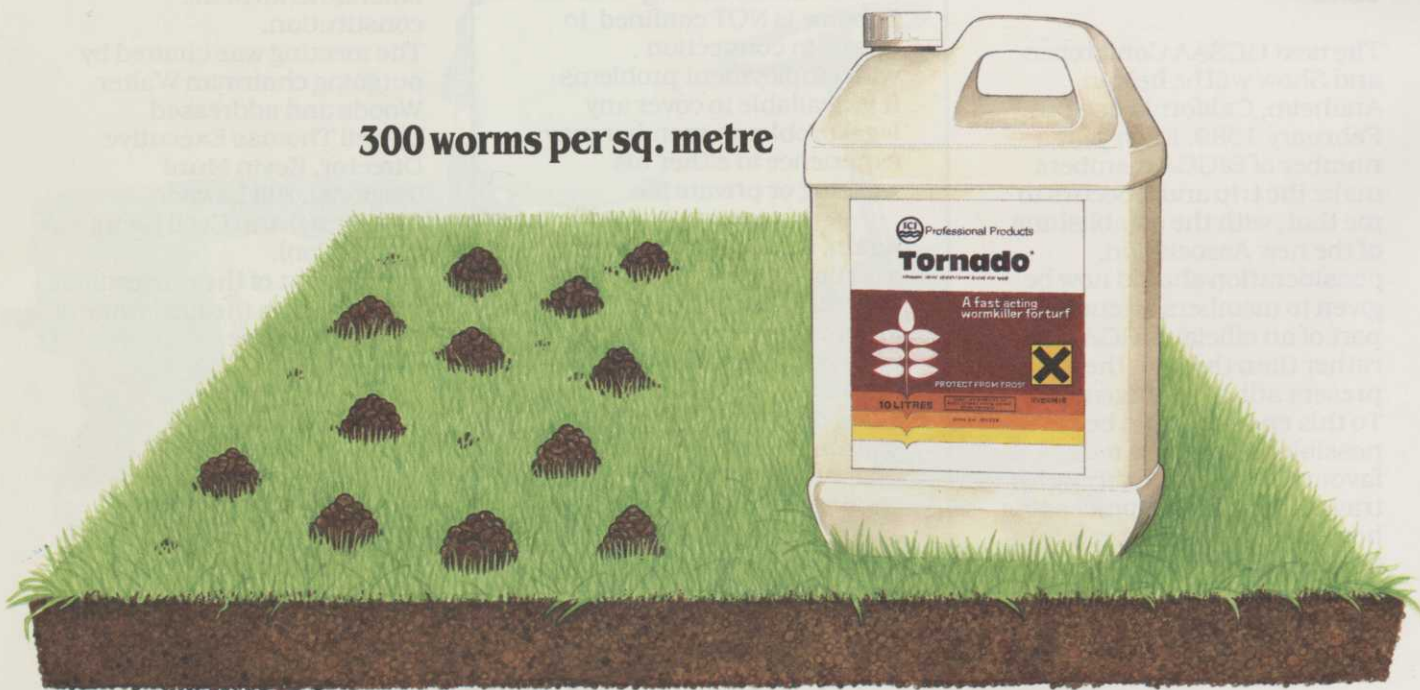
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GC/4/88

An open letter to members of BIGGA

It has been suggested that I address members directly, to emphasise that my non-involvement in greenkeeping affairs in the past months was in no way due to any feelings of animosity to explain my reasons for maintaining a low profile.

At a recent meeting of the R & A panel on greenkeeping in York, during lengthy discussions your executive director Neil Thomas advised that he had heard that I was not in favour of the Association and that I wished to see it fail. I was pleased to correct him, nothing could be further from the truth. Likewise one of the Association's trustees Peter Wilson expressed concern about my un-popularity with members, I was also able to advise him that such a view was in contrast to the reception that I am accorded by members who I meet, as well as by members of the Board of Management with whom I am in regular contact.

For some years subsequent to the establishment of EIGGA I had become increasingly concerned at the burden of administrative work placed on those few enthusiastic individuals who were running (in addition to their full-time duties on their own courses) the three separate greenkeeper associations, to the extent that some, if not all had had no holiday for two or more years. Clearly there was a great deal of duplication and wasted cost in terms of time and money as well as reduced efficiency.

This culminated in my writing to the chairmen of all three associations on the 20th September 1985 "offering my services as an honest broker to try to create some foundations on which the three associations could start to rejoin", and suggesting ways of so doing. This catalysed action, with delegates from the other two associations being invited to meet SIGGA on the occasion of their conference at the Younger Hall, St Andrews in October 1985. At that seminar and specifically in response to my urgent representations, Michael Bonallack promised, on behalf of the R & A, financial support towards the cost of setting up some form of centralised administration if the Associations got together.

Subsequently, I was active behind the scenes trying to sort out problems, chiefly made possible because I could telephone the main "activists" on the basis of personal friendship. I was, however, specifically excluded from any involvement with the Steering Committee negotiations.

I am perfectly aware that I have detractors - one cannot please everyone all the time - but my record, I hope, shows that over the years I have worked unceasingly to improve the lot of greenkeepers as well as the regard in which they are held as a profession.

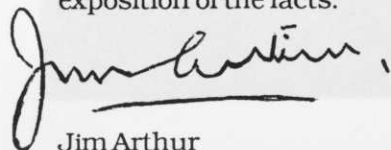
To accuse me of wanting to see BIGGA destroyed when it was my initiative which started the amalgamation is quite incredible. I am the first to admit that my initial aim was to set up a federation to streamline administration in terms of cost as well as efficiency, but if we lose what has now been achieved it would set greenkeeping back at least a decade.

My ambition, now never to be realised, was to see the centralisation of the whole of greenkeeping, advisory, research and education, as well as the greenkeeping association at one centre, to give it a degree of influence, at least the equal of the USGA Green section. In support of this ambition I have in recent years handed over to the STRI, with personal introductions, and every possible help in the handover, virtually all my advisory business, including full files, for no recompense with the sole proviso that a specialist golf advisory team was set up (which has not so far been done) purely in the hope that we might see a continuity of sound advice.

It is my view, that if greenkeepers are to be regarded as part of a respected profession then education must be the main part of the association. I would be happy to assist with this in any way I can. It is vital to get away from the golfing society image and to avoid trade dominance of the Association which of course does not mean spurning well-meaning offers of assistance.

Since I am assured by so many people that my detractors are not a majority, I have responded at last, to repeated invitations to submit 'educational' articles of publication for the magazine in only because never has it been more necessary to agree the basic principles of greenkeeping, under constant attack from every quarter.

May I take this opportunity of re-affirming my good wishes to the Association and to wish it every success in the future, coupling this with the hope that it will make education the linchpin of its constitution and would also like to thank my readers for bearing with me in my exposition of the facts.


Jim Arthur



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Successful seminars by Michael Coffey

DURING March the Scottish Region of the BIGGA and the North West Section held two excellent educational seminars.

The venue for the Scottish regional conference for greenkeepers, groundsmen and convenors was the headquarters of the Scottish Countryside Commission at Battleby in Perthshire. The lecture theatre was first class and after an introduction by Neil Thomas, who acted as chairman for the day, the Commission showed a three screen, six projector slide show of their work in Scotland. This was followed by Duncan Gray whose slide presentation on the restoration of the famous Lahinch links had everyone enthralled. His presentation should be made into a film by the club as part of its historical records. Peter Park of the Scottish Police College then gave an insight into "low maintenance amenity planting". This was an interesting study in how to keep weeds out of beds by covering them with polythene and gravel which allowed the shrubs to grow through. A flowerbed constructed in this manner will in effect remain

maintenance free for several years. The final speaker of the morning session was Eddie Connaughton, sales manager of Souters of Stirling. Eddie, who has been involved in greenkeeping since 1978 and who went to Purdue University in the USA, chose the topic "The facts and fallacies of poa annua". Although he was at pains to point out that the decision to live with or without this weed was that of each head greenkeeper, he did illustrate some very interesting properties of this grass in its numerous varieties. It was perhaps a pity that more open discussion did not follow this talk. One fact that came to light is that at one University in the US there are no fewer than 110 varieties of poa annua under test to see which are the most suitable - thank heavens for the Atlantic ocean.... After a buffet lunch the session resumed with a speaker from the Countryside Commission giving an explanation as to how clubs might obtain grants for their offcourse areas, for tree planting etc. Walter Gilmour, horticultural adviser to the Glasgow garden festival, followed. His

slide presentation was most interesting and covered the previous two national festivals at Liverpool and Stoke, as well as the preparation for turning a derelict dock in Glasgow into a most exciting festival site. Walter has clearly noted mistakes made at Liverpool and Stoke which will ensure success for Glasgow and attract, it is hoped, some 4.5m visitors (at £5 a time!!) Golf in the public sector is often neglected, but the subject was covered most admirably by Andrew Murray, assistant director, leisure and recreation, Kirkcaldy district council. "Golf course maintenance from a local authority point of view" was his chosen subject. Maintenance would appear to be very much along the lines adopted by greenkeepers at private clubs, but there is more emphasis on the five day working week with only minimal work carried out at weekends, no hole cutting or mowing. During question time Mr Murray explained how he envisaged competitive tendering would work when applied to local authority golf courses, with private firms

bidding against the existing employees of the authority for such tasks as mowing, top dressing, aeration etc. All operations have first to be quantified as to time, manpower and machinery necessary. The final speaker of the afternoon was Cecil George, course superintendent at Lenzie golf club, who spoke on "A year on an 18 hole golf course". Cecil raised a few laughs with his observations on greens committees and lady members. Neil Thomas wound things up, with thanks to all especially Elliot Small. The day was very well attended and organised, and was a credit to all concerned, reflecting BIGGA's commitment to furthering education. The North West Section held their fourth annual seminar at Mere Golf and Country Club two days later. There really can be no better place for a golf related seminar than this club, which provides such marvellous facilities and equally fine fayre. This year's programme was introduced by the North West chairman David Lucas of the Tytherington Club. First to speak was

Neil Thomas, BIGGA's Executive Director. Neil gave a comprehensive account of the Association's activities, past, present and future. He outlined the considerable benefits available to greenkeeping members, gave details of the inaugural tournament and conference and of the trade show in Harrogate in January 1989, with the promise of a further conference in April 89 and a separate golf tournament in August. Neil stressed the need for all greenkeepers to join BIGGA and confirmed that the membership figure is already in excess of that at the end of 1987. He also 'had a go' at those within and without greenkeeping who had knocked the Association and its efforts, stating that BIGGA would go from strength to strength and that those detractors had better change their minds and join now or be left behind. The main aim of BIGGA once it is fully operational, is the improvement in greenkeeper training. An appointment is to be made so that the Association can have someone to co-ordinate education throughout the greenkeeping profession. Neil Thomas as Executive Director of BIGGA has worked very hard since taking up his appointment last August. His workload is considerable and his achievements substantial, he has made many friends and trodden a very diplomatic path in what is a political

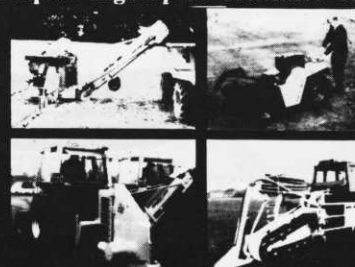
minefield. Above all he is resolute and deserves the support of the whole industry. Brian Pierson, the golf course constructor, spoke on "the construction of a golf course", he expressed his views on design and construction methods, advocating the use of professional architects (not professional golfers) and members of the British Association of golf course constructors, an Association which he helped found in an effort to rid the industry of its "cowboy" image. Mr Pierson answered a number of questions on sand only constructions, the ability of architects that he had worked with, and the tracking on vehicles used on and around greens, demonstrating his knowledge and expertise in this highly specialised area. After lunch, where the hospitality of our hosts was amply demonstrated, Jimmy Kidd, estates manager of Gleneagles gave a slide show of the restoration of the golf courses, the refurbishment of the hotel and the building of the additional facilities now offered, such as the Jackie Stewart shooting school and the Mark Phillips equestrian centre. The very polished and amusing show continued with an insight into the preparation and presentation for last year's Bells Scottish Open. Gleneagles is a beautiful place and the whole presentation reflected this. As well as being entertaining, Jimmy is a good public speaker and above all

an enthusiast. If Jimmy warmed the audience up, Kevin Munt had them rolling about. Kevin, who is course manager at the Wentworth club gave another well illustrated talk on "the devastation of Wentworth". This of course occurred on October 16th during his first major tournament at the club, the Suntory World Matchplay championship. In one ten hour spell during the night the Wentworth estate and tented village were turned into a battleground by Michael Fish's hurricane. The fact that the West course was open for play by 1 o'clock that day for the completion of the previous day's postponed first round and that the estate roads were passable for the crowds is a great tribute to Kevin's organisational skills and to the dedication of his staff. As with Duncan Gray's and Jimmy Kidd's presentations, the clubs concerned would do well to video these talks, so carefully put together by their managers, as a valuable piece of club history. (Maybe we will start Fore Golf

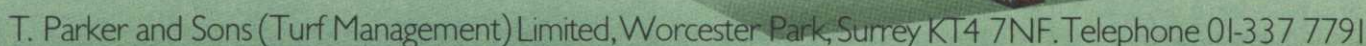
Productions, and sign them up!!) Kevin's dry humour in the face of such adversity must have been another considerable asset and it is to be hoped that more audiences are treated to this talk in the future. Ian McMillan rounded off the day with his excellent talk on "Managing a Surrey heathland course". This appeared in full in the March issue of 'the Golf Course', it was once again very well presented and is expertly researched. All the speakers received an engraved glass memento of the occasion presented by David Lucas, who gave a special vote of thanks to sections education organiser (and chief comedian) John Lowery. There can only be a bright future for greenkeeping when events such as these seminars are staged so professionally and with so many speakers coming from within the profession. Sharing experiences, whether through the spoken or written word, must be good for all concerned. As Neil Thomas said "Education must be our number one priority".

Successful seminars

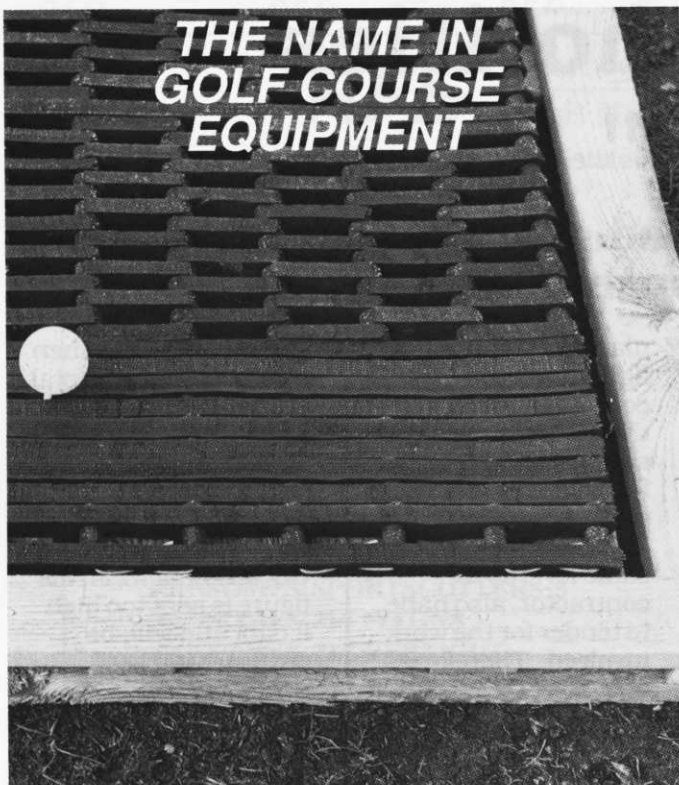
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"Will local authorities be privatised?"

Anthony Davis assistant head greenkeeper of Wentworth's West Course poses the question

THE privatisation of local Government work - what does it mean? Can it be stopped? Can and will they fight back? Below is an indication of what has happened, and what will be happening to Local Authorities in the future. Also, if privatisation is a success, will it affect the greens staff at private clubs? The Local Government bill ("The Green Paper") which has sparked off all this controversy has not yet been passed into law but is still going through Parliament. Local Authorities are acting on their own discretion and are accommodating the Bill now. The services the Local Authorities supply, to which I refer herein, are the open spaces, ie. football and cricket pitches, gardens and golf courses. The "Works Section" of the Council have split into two Sections in preparation for this bill, one being the Clients Section and the other being the Direct Labour Organisation (DLO). The Clients Section are a body of people who have to go out and size up the tasks, estimate and value the whole concept of the work involved, and when finally coming to a conclusion, send out tenders for the operation. With Local Authority

work now becoming competitive outside contractors can, and rightly so, apply for the work involved. This is where it becomes interesting. If the golf course needs to be maintained for the next financial year, which obviously it does, any capable contractor who has the knowledge and machinery to maintain the whole of the golf course can put in his tender to win the contract for the maintenance of the specified open space. The Clients Section will have a policy document guideline on which to base their work. Any contractor not meeting that guideline will be putting the contract at risk, and it is in his own interests therefore to ensure that he meets the requirements set out in the policy document guideline. This is also essential from the point of view of the ratepayers who will be footing the bill. There is a lot of unease amongst Council employees regarding job losses, loss of hours and overtime, and this is where the Direct Labour Organisation steps in. The DLO, the second Section of the Council, are the manual side of this set-up. They are getting themselves prepared so as not to be caught out by all the upheaval. The DLO will have

managers who will fight to win the contracts and to head the field in order to save jobs and money for their employees and employers. The DLO being on the same level as the contractor, also have to tender for the work involved. Therefore, one part of the Council has to apply for the other part of the Council's work. I know it sounds a bit primeval, but it does create stiff competition. The bill, when passed by the Government, will take time to phase in to allow the Authorities and private contractors to establish themselves, especially for open spaces as there are only a handful of contractors who can carry out this type of work. Initially, only a percentage of open space work (around 10%) can go out to tender, commencing in the Spring of 1989 and then 20% the year after and so on until they reach the target of 100% of Council work going out for open tender. By 1993 all ground maintenance will be going outside for contractors to develop themselves, that is if they can "come up with the goods" against the by then well prepared and established DLO. The Government will give exemptions to Councils if the total cost of maintaining specified areas, ie. a

golf course is less than £100,000 but the total cost must include wages, machinery and materials. The bill will exempt that amenity from open tendering, but if the Government feels this figure is sent too high it can, and will, be reduced and kept under review. So in all, the Council will be run more like two separate private businesses which can only mean better quality workmanship, neater appearance together with more of an understanding of the needs of the ratepayer. Pride will be put back into their work. When they have sorted out all the teething problems involved with this complex system, who is to say that, having won their own contract within the Council, the DLO may then start spreading their wings to outside contracts, putting in tenders for private work such as maintaining private housing estates, gardens and even golf courses, thus putting outside contractors under pressure. In conclusion, I would say an exciting time for Local Authorities and entrepreneurs. Contract greenkeeping may well be a fact of the 1990's.

Anthony Davies
Assistant Head
Greenkeeper, West
Course, Wentworth.

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GC/4/88

The state of the profession

by Jack McMillan
incoming chairman of the

British and International Golf Greenkeepers Association

EVERY season brings with it some controversial talking point, the present one being greenspeed or pace.

Greenkeepers are still receiving flak from all and sundry about the deterioration of the quality of the greens provided for the golfer, when the golfing press, professional golfers and the club golfer express concern.

Now might just be a good time to have a good look at ourselves, where we have been, where we are at present and where we hope to be in the future. Greenkeepers have never been unanimous in the past regarding greenkeeping philosophy. Hopefully, the news of the R & A's investment into researching this subject at the STRI might someday have us all working along similar lines, towards a common end - better greens!

The types of course we play on in this country are many and varied and there are times, throughout the year, when they cannot be compared one to the other. Links, downs, heath and heavy clay parks all react differently to the vagaries of prolonged drought or long wet spells. Golfing press, kindly take note!

We have also come in for some criticism from tour professionals lately. Professionals, week in week out, are privileged to play at venues where every effort has been made to give them the fastest and best surfaces that can be achieved without causing any long-term damage. From some of the comments we read it would seem that pace or greenspeed is the main point of contention.

To achieve the top level of greenspeed for tournament golf, our programme closely follows that of the Americans. Nitrogen fertilisers used sparingly, regular use of verticut reels and an intensive topdressing programme. It is also

a fact of life that the best possible speeds are reached during periods of drought, when the greenkeeper can dictate the amount of water used. If God in his wisdom sends us prolonged periods of wet weather, this has a profound effect on the pace.

I personally believe that the amount of water from the heavens or from irrigation determines the pace more than anything else. Unfortunately when clubs have invested a great deal of money in very sophisticated irrigation equipment they bring pressure to bear on the greenkeeper to use or "missuse" it, although it should be mentioned at this point that research in the United States would seem to discount that moisture content has any real slowing effect on pace. My own experience differs from this.

The height of cut has been dropped and greens are double cut and sometimes rolled with weighted hand machines to get the best possible speed. Ask any greenkeeper who has applied this programme and they will tell you that they could see their greens deteriorate before their eyes. This experience has been shared with superintendents

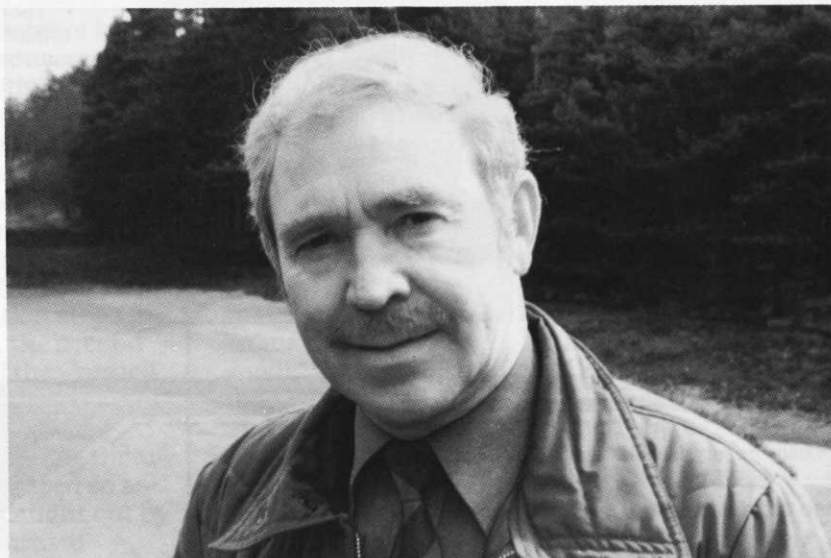
in the United States.

I am sure the plant breeders would agree that very few varieties can withstand this treatment for any length of time, even poa annua becomes sickly and weak. In the USA they have budget levels and in most cases soil temperatures suitable for aiding recovery from overseeding programmes, to quickly restore putting surfaces to normal. Our usual growing season at best lasts four or five months.

The only way to achieve a measure of recovery from this fairly dramatic treatment is to raise the height of cut to a sensible 3/16th of an inch as soon as possible after the tournament. This can, understandably, cause some resentment from club members who may, with some justification, feel they have been let down.

Unfortunately, the golfing public who attend tournaments, or watch them on the television, tend to think the greenkeeper has some magic wand that can maintain these conditions for the main part of the season. This is a risky, costly and dangerous route to follow

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Jack McMillan head greenkeeper, Sunningdale Golf Club.



with, nine times out of ten, some long-term damage to the quality of putting surfaces.

Jim Arthur in this country and Mr Alexander Radko of the USGA Greens Section have, over the years, made clear their views on the judicious use of fertiliser. I am sure that even fairly heavy applications of nitrogen early in the season can have a lasting effect on the quality of putting surfaces for any one year. This is again an area where greenkeepers can come under pressure. The chap down the road has greens the colour of well grown leeks, and his members think theirs should be the same. Sometimes a delicately balanced programme is not easy for the greenkeeper to live with.

We regularly hear of how fast greens used to be, although at the present time we are cutting more frequently and at dangerously lower heights than at any time I can remember. Ask any older member of greenstaff at any club and you will find that greens were cut at most three times a week and possibly at weekends twice a year for special club occasions, with heights of cut never lower than 3/16th of an inch.

Compare that with today's daily cutting, throughout the season, and at lower heights of cut for greater periods.

Below the safe 5/32nd of an inch we begin to have greens telling us they are under stress, poor thin swards, being invaded with pearlwort and



The Old Course, Sunningdale.

parsley piert, "all the danger signals". I am sure the best possible way to find pace for major club competitions is this height of cut with double mowing, again to be raised as soon as possible.

Since 1977, when the Stimpmeter was first introduced, we have for the first time, accurately been able to measure greenspeed rather than depend on fairly fallable memories. Also, through speaking to many golfers, I have a sneaking feeling that the great majority of the golfing public like medium-paced greens.

Reading a back issue of the USGA Green Section Record it is interesting to note that they recommend greenspeeds they feel can be achieved for regular club golf and a target to achieve for major tournaments of any kind. It is made perfectly clear what they consider can be

achieved safely.

The following is what would be recommended for membership play: Fast 8'6", Medium Fast 7'6", Medium 6'6", Medium Slow 5'6" and Slow 5'0" and below. The preparation for any major event should aim at much faster speeds: Fast 10'6", Medium Fast 9'6", Medium 8'6", Medium Slow 7'6" and Slow 6'6".

Many of the old established clubs in the country take great pride in the fact that they always had fast greens. This can be achieved again but we will, however, experience some pain in getting there. I am sure that the research now being set up at Bingley will make this easier in the long term.

I have a feeling we might just hear about turning the clock back to less water, less fertiliser, raised height of cuts and less frequent mowing.

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Blueprint for a new course

THE new South Course at the Wentworth Club, which is now under construction, is probably the best researched and most professional golf course project ever to be undertaken in the British Isles.

Far from being an 'overspill' course for existing East and West Courses, the South course concept is that it will become even more famous than the notorious Burma Road and will stage major PGA European Tour events very quickly.

The man who has masterminded the South Course project is the club's managing director Richard Doyle Davidson. In his planning he has enjoyed one major advantage in that Wentworth is a proprietary club, run on business principles and as such decision-taking is not burdened by the committee process.

To set the scene for the South Course development it is necessary to trace some of Wentworth's history. The Clubhouse and golf courses were for many years owned by Sir Lindsay Parkinson, construction and mining engineer and when this business was acquired by Fairclough Construction Ltd in 1974 the club and its courses changed hands. For some years the company appeared unsure as to what to do with Wentworth, but in

1979 they sent Richard Doyle Davidson, then the club's secretary on a visit to the USA as a marketing exercise. A report was prepared as to what was needed to improve Wentworth, but no commitment was made by the owners. In 1980 a parcel of land adjoining the courses came on to the market and as a result 240 acres of mainly woodland were purchased from the Greyhound Racing Association to protect the club and estate's boundaries. In 1984 Faircloughs amalgamated with another large company in the building industry, William Press, and formed AMEC plc. Wentworth Club Ltd. then became one of forty two subsidiary companies within the group.

The new owners commissioned a study on Wentworth's future and came to the conclusion that there were three options open to them.

1. To do nothing - in which case club, course and owners suffered.
2. Sell - perhaps to another company more usually associated with the leisure industry.
3. Do something to upgrade existing facilities and to expand in order to increase revenues and produce a greater return.

Previously there had been two attempts by different developers to gain planning permis-

sion on the 240 acre south site these were for a golf centre, housing, as well as a golf course. These plans had failed, with the local authority turning them down flat, on the grounds that the site was in the greenbelt and also formed a local amenity for walkers and riders.

AMEC having considered their study as to the options on Wentworth's future came to the conclusion that an additional golf course was required to alleviate pressure on the existing two, that members of the club required better facilities both on and off the course where they were tired of competing with visiting societies, and that as golf in the UK is a seven month business, from May-October, additional facilities would have to be offered by way of a leisure centre to ensure year-round income. The company forecast a return of the capital employed over a 6-7 year period.

However the track record was not good, the site for the golf course was in the greenbelt, residents of the estate did not want additional traffic, the club members were not happy and all manner of local conservation groups were against the project as they wished the Great Wood as the site was known to remain untouched.

Despite these apparent



The drive at the South Course's 16th with the centre tree remaining

insurmountable odds Richard Doyle Davidson set about assembling a highly professional team to win over the objectors. His plans were not only thorough but can be regarded as a blueprint for any club considering extending their course in these ecologically sensitive days.

A survey of the site was commissioned and from this the chosen golf course architect, John Jacobs, with consultants Gary Player and Bernard Gallacher, made their plans.

Obviously most of the objectors felt that a golf course, by removing trees and introducing cultivation, would damage the local flora and fauna. Richard Doyle Davidson approached Dr. David Parker of Liverpool University's Environmental Advisory Unit to produce a report on the affect that a new course would have on the environment. The report, it must be stressed, could have gone either way, as Dr. Parker was totally impartial.

In his final report, a most comprehensive study, Dr. Parker concluded "Although the Great Wood to Knowle Hill woodland has biological values, as have all woodlands, the study has shown that only two areas are of sufficient scientific interest to merit their complete conservation within the proposed development. These are the

western part of the Great Wood and the beechwood area of Knowle Hill.

The alder and birch carr woodland and the western edge of the Great Wood is of high scientific value and is the only part of the site known to have been wooded for longer than 150 years. The beechwood of Knowle Hill, although planted, is also of considerable biological importance. The complete retention of these areas within a sympathetic golf course

design will ensure that the majority of the biological value of these areas is unlikely to be diminished by the construction of an adjacent golf course." The conclusions also covered the retention of certain specimen trees on the site, that the biological value of the East course was high as it supports heathland, woodland and grassland, and that the proposed South course would

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Heathland on the 9th hole

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South East : East Anglia, Greater London, Surrey, Sussex, Kent.

South West and South Wales : South Coast, Devon and Cornwall, South West, South Wales.



be similar and would allow a wide diversity of plants and animals to flourish. Finally it was proposed that the EAU should continue to be involved with the golf course design in order to ensure that the most ecologically sympathetic proposals would be achieved. Now armed with an independent report suggesting that the proposed golf course could only do good, Mr Doyle Davidson appointed a planning consultant, someone who was fully acquainted with local planning authorities and regulations to guide the company's application through the various planning committees. Next came a video. Amongst the Wentworth members was a PR director of a large advertising agency who, together with a number of his colleagues, produced a video making the case for the proposed new course. On the video Chris Denham, B.B.C. S.W. presenter, interviewed Renton Laidlaw the golf correspondent of the *London Evening Standard* who pointed out the need for additional golfing facilities; John Jacobs who confirmed that his design would enhance the area; Dr. Parker who also confirmed that the affect on the flora and fauna would be beneficial, and Richard Doyle Davidson who calmed the fears of the estate residents and members. The video presentation was made to

some 30 interested groups and it contributed greatly to the ultimate success, a professional tool for a professional approach.

The majority of the objectors, having seen the evidence and received the company's presentation of the facts, withdrew. The planning committee of Runnymede Borough Council agreed to the plan with one caveat, that an ecological management committee be formed to produce a ten year management plan for the site. This committee comprising representatives from the Borough Council, Wentworth residents association, the EAU of Liverpool University, the Surrey Wildlife Trust, the golf course architects and the Wentworth Club Ltd. with Richard Doyle Davidson appointed chairman. Having drawn up a routing plan for

the golf in conjunction with the architects and Dr. Arthur Linley of the Surrey Wildlife Trust, Mr. Doyle Davidson presented this to the management committee who endorsed the scheme. The Runnymede planning authorities also approved both management plan and planning application.

The route of the course was then marked out with tape and scrub cleared to a width of 50 yards. The trees that were to remain in these 'playing areas' were marked and the tree clearance programme started in the autumn of 1987.

The site is now ready for the golf course constructors, Golf Landscapes, to move in and start shaping and building. Details of the design and construction will form the basis of the next article in this series.



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MORE BOOKS for GREENKEEPERS and GREENS

COMMITTEES

by Eddie Park

THIS occasional series, which started in July 1986, has attempted to suggest a reading list for those interested in golf course maintenance.

The great difficulty is the need to have some understanding of a whole range of subjects.

Concentrating on a narrow spectrum makes it impossible to cross boundaries and appreciate the difficulties of the other people involved, be they agronomists, architects or golfers. Many failures over the past eighty years can be attributed to the lack of wider visions.

A secondary objective has been to share with other book-lovers the joys of discovering interesting old books. Over the past five years, golf books have shot up in value and scarcity. People in the book trade recognise that golf is a specialised market and channel golf books to specialist dealers, where prices soon escalate.

Today, it is rare to find interesting old golfing books in the hands of general dealers.

This has taken much of the fun away from those of us who enjoy searching the shelves for rarities at bargain prices.

It can still happen, of course, and I had such a find last summer. The small seaside town of Whitby has some interesting corners and passing, of all things, a knitting-wool shop, I noticed some shelves of books. I looked them over, not expecting to find very much, only to realise that amongst the romantic novels of the Thirties was *Golfing (1893)* by Horace Hutchinson, the first great golf writer who was golf correspondent to *The Times*, priced at £2.50! Indeed, the lady in the shop told me she was pleased to see it go as it had been there for years. The real value proved to be about £80 - so don't forget to look in every knitting-wool shop you pass!

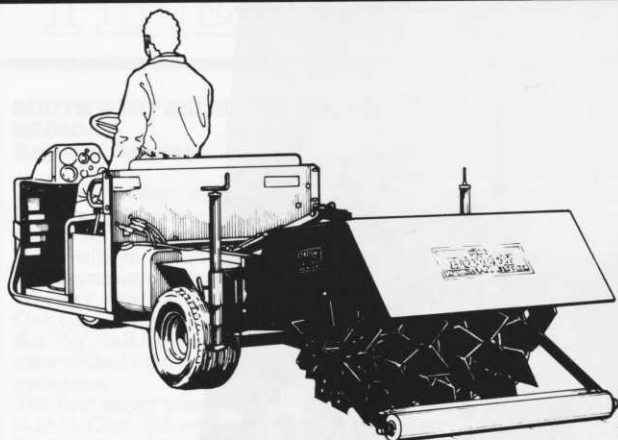
This book has some useful material about early courses and their play and fits neatly into my category concerning the philosophy of the game as it is played. Inability to understand changes in the game as it is played, then and now, leads to

confusion in what we are being asked to provide for the golfer. During the past year I have managed to extend my collection without spending too much money. The largest item, both in price and size, is *The British Islands and their vegetation* by A G Tansley (1939). Sir Arthur Tansley was very much the "father" of ecology in this country in the days before the subject became such a political football. This magnificent tome, published nearly fifty years ago, is remarkable for the fact that it is still in print and is still a standard work of reference. So a secondhand copy at less than half the new price of £75 is good value. Think of any area of Britain or any habitat and you will find a detailed and easily understood description of WHY it is what it is. Knowledge concerning the influence of local soils and local climates on the vegetation is invaluable when the aim is to grow specific perennial grasses. Speaking of soils and their ecological influence, another volume in the "New Naturalist" series which caught my eye was *Britain's Structure and Scenery* by L Dudley Stamp (1946). This concerns the topography and soils of different areas and relates them to the geographical history.

Now for two books with the same title: *Turf Culture* by Ian Greenfield (1962) and by Frank Hope (1978). Greenfield is described as "being specifically as agricultural adviser to a leading firm of chemical manufacturers". His views on turf nutrition would not meet with universal approval, but this is a comprehensive work containing much of interest. Frank Hope's book is aimed at the practicing groundsman (as opposed to greenkeeper) but again there are some very useful sections. Another book aimed at the same market is an American publication *Grounds Maintenance Handbook* by H S Conover (1953).

A very general reference book on golf is *The Shell International Encyclopaedia of Golf* by Donald Steel and Peter Ryde (1975), with excellent descriptions of courses and architects as well as of golfers. Now for something completely different - *Lawn making together with proper keeping of putting greens* by Leonard Barron (1906), a book published in New York which records the early difficulties experienced by Americans who tried to copy our fine grassed areas. A quote makes interesting reading: "As well recognise first as last the fact that the world famed lawns of Europe are impossible to the gardens this side of the Atlantic. Over there the grasses grow once they are established and reseed themselves with a facility that is surprising to the New World gardener. Here, with the problems of excessive and brilliant sunshine in summer, often coupled with spells of exhausting drought, and followed by extreme cold of our often rigorous winters, the grasses suffer strains which necessitate an entirely different method of lawn making. Hence the fine art of lawn grass mixtures has developed almost into a science and excites an amount of interest that is not paralleled elsewhere." Indeed it was even worse than that when the attempt was made to make lawns and greens in even more unsympathetic climatic areas. Somehow, over the years we allowed ourselves to be persuaded that the Americans did it better than we did. The truth is that greenkeeping over there was much more difficult because of the climate and soils, but they had some success in solving their problems. Read the *Green Section Record* and you will see that many snags remain. As for us, we all fell for the line that by copying American methods we could produce something better. Studying books will certainly not teach anyone all there is to know about golf course maintenance, but it might make us all think before we jump out of the frying pan into the next fire.

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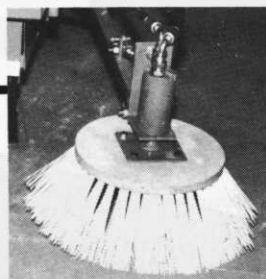
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AROUND THE GREEN

BRITISH AND INTERNATIONAL GOLF GREENKEEPERS ASSOCIATION

SOUTH WEST AND SOUTH WALES REGION

Regional Seminar

THE South West and South Wales Region held its second Seminar on 9th March at Somerset College of Agriculture and Horticulture, Cannington. The Seminar was introduced by Paul Worster, Course Manager at Lilley Brook Golf Club, still not fully recovered from the 'flu', but he gave us all an enthusiastic view of the BIGGA before introducing the speakers.

The first paper was given by Nick Rigden, N.D.H. Cert. Ed. on 'Greenkeeper Training', and started the day off with an insight into the training given at Cannington for the City and Guilds. He also pointed out courses which they are prepared to run at the college for the future of greenkeeper education. How good it was to hear someone spelling out the importance of specialised greenkeeper training from a college. Well done Nick!

Bob Corns of the N.C.C. gave the second paper on 'Nature Conservation of Golf Courses', and I personally have not heard a better talk on conservation connected to golf courses. It was very informative and his slides were excellent. I am sure they were enjoyed by everyone.

We ran up to lunch with question time conducted by the Chairman, Ivor Scoones, with the two morning speakers taking on a lively 30 minutes of questions. After an hour off for a superb lunch provided by the college chef, Ken Morris, everyone came back for the afternoon session happy and replete. Jeff Perris, B.Sc. from the S.T.R.I. started the afternoon with a paper on 'Turf Management', and all those who know and have had the pleasure of hearing him speak before, will know how good he is. Jeff always seems to have the ability to read the mood of the people, and with his expert knowledge put over a first class talk.

The last paper of the day was given by Tony Gray, P.G.A. European Tour Director, on 'Tournament Golf Courses'.

Tony, who came in to bat last - not the best spot to be in - proved the ideal man for the job. Not only was his talk very enlightening, but it also stirred up the minds for question time which was to follow. His many humorous remarks plus his undoubted knowledge of golf and courses made him a pleasure to listen to. The question time conducted by the Chairman was again very lively but with time running out, yours truly had to call a halt.

I am sure the sixty people who attended and paid for the Seminar enjoyed it. I personally would like to thank the

college for having us, and providing such marvellous facilities and of course, all four speakers for such excellent papers. Also my thanks to all who attended and supported us, including the numerous students who were interested enough to slip into the Hall on occasions just to listen and learn, and were therefore very welcome.

Gordon Child, Regional Administrator.

South West section

On the 26th January, Broome Manor Golf Complex played host to the South West Section for a most interesting lecture and slide show from Jack McMillan, head greenkeeper at Sunningdale. Jack's wide experience and knowledge of golf certainly showed through as he passed on many useful tips and ideas to the audience.

After a short break, Brown and Sons Seeds took over with a general knowledge quiz for teams of three greenkeepers, with the team captained by Laurence Pithie winning with 23 points out of 30 points. Many thanks to Dave Padfield of Browns for researching the questions and providing the prizes.

The afternoon was thoroughly enjoyed by all, the only shame was that only 17 members bothered to turn up. Members should note that the Spring Tournament featuring the Iseki Qualifying round will be held on May 3rd at Lansdown.

The South West Section held its AGM on 1st March at Lansdown Golf Club, Bath. The meeting opened at 2.20 pm to 17 members chaired by Mr. R. Gates. Officers were elected as follows:-

Chairman - R. Gates
Vice Chairman - W. Curtis
Administrator - P. Worster
Regional Board Representatives -
L. Pithie, L. Millar
National Board Representative - I. Scoones
Non-Committee Positions:-
Match Captain - J. Kane
Prize Procurer - A. Stiff

Fixtures for 1988

Spring Tournament Lansdown Golf Club (with Iseki qualifying) 3rd May
Match vs Secretaries Budleigh Salterton Golf Club 26th May
Greenkeeper/Amateur Westonbirt Golf Club 1st June
Iseki Regional Final Long Ashton Golf Club 15th June
36 Hole Summer Tournament Cirencester Golf Club (with Jacobsen qualifying) 3rd August
Match vs South Coast Kingsdown Golf Club 13th September
Match vs Welsh Section St. Pierre Golf

Club 5th October

Christmas Tournament Burnham and Berrow Golf Club 15th December
Laurence Pithie was congratulated as 'Master Groundsman of the Year' by the Administrator on behalf of the meeting. Ivor Scoones, Jock Millar and Laurence Pithie were thanked for the time they spend on the Regional and National Boards respectively.

Concern was expressed at the apparent omission of the ARMS Tournament from the fixture list this year, the Administrator informed the meeting that Peter Hampton was undecided whether or not to run it again this season due to the excess workload and the torrent of complaints he has usually received about pairings, timings, etc. Les Johnson proposed that we might help him officially this year using our knowledge and experience to solve any of these problems. After some discussion, this was agreed. The resolution that the John Ireland Foursomes be dropped and the trophies be used for alternative means was passed, the trophies to be used at the Committee's discretion. The Administrator pledged to carry on organising lectures and talks, etc. but only if they were better supported than of late.

The meeting closed at 4.20 pm with thanks to the Chair and Lansdown Golf Club.

P.A. Worster.

South Coast section

Would members please note that the Sections Golf Tournaments for 1988 are as follows:-
Spring Tournament 19th May
West Sussex Golf Club best gross and best net scores, over 36 holes qualifying for the Jacobsen Greenkeepers Tournament.
Summer Tournament 13th July
Southampton Municipal Golf Course.
Autumn Tournament 6th September
Romsey Golf Club
Annual Match v South West Section 13th September
Bristol and Clifton Golf Club
All enquiries regarding any Tournament should be sent to our Tournaments Organiser, Mr. Joe Burdett whose address is: 948 Castle Lane West, Bournemouth, BH7 6SP. Tel: 0202-483017
Details of Spring Tournament are:-
Venue: West Sussex Golf Club
Date: Thursday 19th May
Competition: 36 hole Medal
Members wishing to play only 18 holes will be entered in an 18 hole Medal.
Members aged over 50 can also compete for the Nita Stimson Trophy
Entry fee: £9.75
Cheques and Postal Orders made payable

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AROUND THE GREEN

to BIGGA South Coast Section. Teeing off from 9.30 am.

Members who intend to play should send their written entries giving name, address and current handicap together with entry fee to Joe Burdett at the above address. Please also state whether you wish to enter the 36 or 18 hole Medal Competition and the Nita Stimson Trophy Entries to arrive not later than Friday, 6th May, 1988.

J. R. Dennis

SOUTH EAST REGION

London Section

A letter from your Chariman:

I would like to welcome all members to the new London Section, although the Section has been in existence for some years now. The first A.G.M. of the BIGGA Association London Section was held on 19th January, 1988. The area has been increased and a new Committee has been elected into office, so everything is new. May I take the opportunity of thanking those members that attended the AGM and for their vote of confidence in me, by electing me as their Chariman. I will endeavour to carry out my responsibilities to the best of my ability and would thank also my Committee for their acceptance of their positions. I look forward to the coming year with a great deal of optimism and pride in the knowledge that I will have a very workable team with which to operate. Thank you all once again and welcome to all the new members in the Hertfordshire County and the East London and West Essex areas.

Bill Thompson

Firstly I would like to pay tribute to our past Chairman, David Low. David has been forced to resign because of personal circumstances. His experience, commitment to the Association and pleasant manner will be missed not only by the Committee with whom he worked so closely, but I feel sure, by all the members that had the privilege of knowing him.

May I wish David and his wife all the very best for the future.

The AGM was held at Pinner Hill Golf Club and I thank them and their staff for their kind hospitality.

A lot of business was carried out and I would like to give you the names of your elected Committee:-

Vice Chairman - Mr. John Edwards

Administrator - Mr. Michael Peters

Committee

Mr. Norman Exley

Mr. Christopher Greenwood

Mr. Brian Anderson

Mr. Jeffrey Donovan

Mr. Jeremy Hill

Mr. Nick Baldwin

The following were elected Regional Board Representatives, myself and Brian Anderson. The Region comprises of 5 Sections, London, Surrey, Kent, Sussex and East Anglia.

The accounts for the period April 1987 to January 1988 were read and accepted.

Any member requiring a copy should contact me.

The Chairman mentioned the extension of the Section in his opening comments.

The position is that the area that is inside the M25 covering the North of the Thames together with Herts and Middlesex is now the boundary of the London Section. This increases the size of the Section and makes the potential of the Section that much greater.

Any member wishing to apply for uniforms should contact me as soon as possible with their sizes and choice of colours, etc.

The following is the dairy of events:-

21st April

Spring Meeting at Moor Park Golf Club at 3.00 pm. This will be an 18 hole event also qualifier for the Regional final of the Iseki National Tournament. The cost will be £6.00 per head which will include a sandwich buffet on completion of the golf.

Members wishing to take part in the event please contact me NOW on Northwood (09274) 28167.

1st June

Evening Golf Meeting at Bush Hill Golf Club. I am awaiting confirmation of this event and will notify members in the next newsletter.

10th June

GRAND SUMMER BALL at Aldenham Golf and Country Club, 7.00 for 7.30 pm until midnight. Dancing to the 'Patriche' Band. Cost £16.00 per ticket, which are now available and members wishing to attend should contact me now in order to secure a ticket.

23rd August

Golf Evening 18 Holes at Pinner Hill Golf Club, confirmation awaited.

26th to 30th September

BIGGA National 3 day Tournament

followed by 2 day International

Conference at the Belleisle Golf Course, Ayr, Scotland. Members wishing to attend please contact me NOW.

Summer League

For the benefit of new members, this is a tournament which I have run for the past few years and the format is as follows:-

Each team comprises 2 greenkeepers and plays each of 3 other teams in a league competition on a home and away basis. 2 points for a win, 1 for a half. The winners of the league go forward to a knockout competition. There are normally 4 leagues in the event.

Any teams wishing to participate, please contact me NOW.

Mailing

If you have any other member in your Club receiving this newsletter please contact me so that I may be able to put all other communications in one envelope thus avoiding unnecessary expense.

Thank you

We apologise to David Murphy of Kingston House Mowers for not mentioning him in our last newsletter for the valuable support he gave us at our Autumn meeting at North Middlesex Golf Club. Many thanks David, it was very much appreciated.

Finally, I would like to thank most sincerely Sylvia, the daughter of Chris Greenwood, for all the excellent work that she has done for the Association over the past 10 months. She has done all our typing and duplication work with all that that entails. She moved away in February and will be sorely missed. Thank you Sylvia very much and all the best for the future

Michael Peters.

Sussex section

Dates for the Section dairy include:- 26th April Littlehampton Golf Club 36 holes 9.00 am tee-off.

May

Sussex v Surrey (date to be confirmed)

June

Cophorne Golf Club (date to be confirmed)

14th July

Brighton and Hove Golf Club. 2.00 pm

18th August

Bognor Regis Golf Club 2.00 pm

29th September

Royal Eastbourne Golf Club, 36 holes 9.00 am tee-off. 1st December Lewis Golf Club, Turkey Trot. 10.00 - 11.00 am tee-off. 18 holes.

R. P. Jones

MIDLAND AND NORTH WALES REGION

East Midland Section

Spring Golf Tournament

Our Spring Golf Tournament takes place on Thursday, 12th May at the Cosby Golf Club, Chapel Lane, Cosby, Leics. This is a change of date from earlier information.

Entry forms have been sent out and should be returned by the closing date of 1st May. If you have not received one, please contact me.

Singles and Pairs Knockout.

We shall again be running our Singles and Pairs Knockout competitions throughout the Summer. Entry forms have been sent out with the Spring

Tournament letter and should be returned by the closing date of 1st May. The East Midland Section Committee

Play
around
with

ISEKI

AROUND THE GREEN

would like to welcome all new members to our Section and hope that they will participate in as many events that they possibly can through the season. Would members who require any items of the BIGGA uniform please contact me for an order form.

R.W. Willars

Mid Anglia Section

At the AGM held at St. Neots Golf Club on 16th February, the following were elected to represent the Section for the fourth coming year:-

President - Graham Pitcher

Chairman - Paul Fitzjohn

Secretary - R. J. Goodwin

Treasurer - Les Wakerell

Match Secretary - Ken Bunting

Representatives to Regional Board - Paul Fitzjohn and John Wells.

The February Lecture at St. Neots was well attended by more than 50 members who were given a talk and film on the development of the "John Deere Organisation" ably assisted by Woodlands Agriculture Ltd. of Brigstoke, Northampton who kindly donated half the cost of the lunch.

Dairy Dates

27th June

Iseki Golf Tournament at Tewkesbury Park Golf Club (Qualifiers over 18 holes of Spring Tournament on 19th April)

8th July

Annual match v Midland Section at Moor Hall Golf Club.

2nd August

Summer Tournament, 36 holes at Knebworth Golf Club (Qualifier for Jacobsen's International Tournament)

19th October

Autumn Tournament, 27 holes at Ashridge Golf Club.

Look out for further details of these fixtures and Winter meetings in future newsletters.

R. J. Goodwin

Midland Section

Our AGM took place at Edgbaston Golf Club on 27th January with only 17 members attending. Our elected officers are as follows:-

President - R. Pugh

Chairperson - A. Kite (021-351-4423)

Secretary - I. Toon (021-308-6684)

Treasurer - E. Thomas (021-308-2954)

Committee members and their duties:-
Lecturers - Peter Woodward (021-378-2511)

Competitions Secretary - Peter

Richmond (021-354-5616)

Inter Section Matches - Tom Kelsall

(0827-284782)

Handicaps - Mick Hughes (021-422-2615)

Regional Representatives are A. Kite and

I. Toon.

On February 17th Peter Woodward

arranged a visit to the Toro factory at St. Neots. 18 of us left Walsall Golf Club on a coach laid on by Alexander's (better known as King's Heath Mowers) and were treated to a most enjoyable day visiting not only the Toro UK factory at St. Neots but also the Bury St. Edmunds factory where export machinery is made. Our grateful thanks go to Mr. Dale and his associates of Toro and also to Peter Richmond who displayed another of his many talents and drove the coach.

Competitions for the Year!

Summer - 11th July

Maxstoke Park

Autumn - 22nd September

Worcestershire Golf Club

Christmas - 7th December

Copt Heath Golf Club

Closing dates for any competition will be 14 days prior to the competition. Anyone wishing to play who has not yet received application forms should notify Peter Richmond who will oblige.

Finally an apology to Mr. N. Woolfrey for the 'gaff' I made when I previously reported that S. Stenhouse had won the Christmas Tournament when it was in fact N. Woolfrey who won.

I. R. Toon

NORTHERN ENGLAND REGION

North West Section

Our Seminar at Mere Golf and Country Club on March 17th was a huge success as usual with a large turnout of members who were treated to an enthralling array of speakers.

The North West Section members would like to thank all concerned for the hard work they have done in putting on the seminar especially John Lowery, Education Chairman, whose work was invaluable.

The Section Committee sent out a letter to every Head Greenkeeper in the region informing them of this year's activities in the North West. If you did not receive a copy, please contact me as soon as possible and I will send you one.

Here is an offer that no golfer/greenkeeper should pass up. How would you like to walk alongside your favourite golfer? Well, you can - simply volunteer to rake bunkers at this year's 'British Open' at Lytham-St-Annes. If any member nationwide wishes to take part, will they contact myself or Dave Golding, Regional Administrator at 38 Grove, Flixton, Manchester.

The Committee has been asked to advertise for any interesting or informative articles to be published in our magazine. So if you have anything which may help other greenkeepers or be of some interest, please put pen to paper. Finally, there has been another change in Secretary's position. I am resigning from the job having obtained the post of

Assistant Course Manager at the new Goodwood Park Golf and Country Club. The new Secretary will be announced at a later date.

I would like to thank the Section's Committee for all their help over the recent months and wish them all the success in the future.

Mark Lewis

Northern Section

There appears to be a strong attack of Spring Fever in our Region right now, a veritable all-change extending beyond our county boundary to mainland Europe. But first the home news:- Northern Section Committeeman Robert Lupton has taken hold of the reins at Cleckheaton Golf Club succeeding Chris Ramsden who has moved to Dusseldorf.

David Whitaker is leaving Rawden for Golf Club Domaine Imperial, Gland, Switzerland; a new development on the edge of Lake Geneva. Also leaving for La Suisse is Jim Richards, formerly an Assistant at Knaresborough. Jim is setting out to join the International team of Ian Tomlinson based at Lausanne.

Another Northern Section Committeeman Alan Lofthouse is moving to Saffron Walden to crack the whip there. Quite naturally, we wish the aforementioned gentleman every good fortune in their new endeavours.

With little doubt the next bulletin will carry news of the resultant knock-on effect.

For those of you looking for a decent night out, please note that our Annual Dinner-Dance will take place at Otley Golf Club on 29th April at 7.45 pm. As always, we would be delighted to see you and in the meantime would be equally delighted to take your booking at £10.00 per head.

A pleasant front centred over Moor Allerton on 18th February when Mr. Alan Murray of the Leeds Weather Centre entertained us to a very interesting insight of Met Office activities. Did you know that the British Meteorological Office sell world-wide weather information to 80% of the world's airlines and also to other countries, including Japan? Soup manufacturers gear their production to cold spells and Marks and Sparks actually tape the farmer's forecast and use the information on which to base their next weekend's purchasing!

We even learnt that Moor Allerton Golf Club had become subscribers to the Weather Service at Leeds allowing them to obtain weather data by direct ex-directory line - pretty keen, eh?

Section dates

11th May

Spring Tournament, Hornsea

14th June

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AROUND THE GREEN

President's Day, Cobble Hall. If you feel like a decent read, £7.50 will buy you the transcript of our last Seminar, Greenkeeper, Golf Course and Conservation; package and postage inclusive.

David Hannam

Cleveland Section

It was with regret that I received Mr. W. Burt's resignation as President of the Cleveland Section, but due to poor health he has had to stand down. Bill has been with the Cleveland Section since it began and he was one of the founder members, long ago in a back room in Yarm. He is well liked by both greenkeepers and groundsmen in the area and I am sure that everybody wishes him a speedy recovery and hope to see him up and about again soon.

Our Spring Tournament will be the qualifier for the Regional round of the Iseki National Tournament. 12 qualifiers are needed - 4 from the categories:-

- 0 - 9 inc
- 10 - 18 inc
- 19 - 28 inc

The Regional Final will be played at Moor Allerton on Tuesday, 24th May. Also our Spring Tournament is the qualifier for the Jacobsen competition (best net and best gross).

A lot of thanks to Mr. Jeremy Howarth for his lecture on the range of seeds available from Inter Seeds accompanied with an excellent slide show.

Unfortunately there were only 9 people there, a rather poor affair and very embarrassing for those stalwarts who turned up to give their support as usual. A lot of time is spent in putting these lectures and demonstrations on for your benefit and a greater commitment and interest of the part of members is necessary.

Finally, only paid-up members shall receive information and newsletters in the future.

T. A. Naishitt

Sheffield Section

For our February lecture date two Advisors from the STRI accepted our invitation to come and speak to us on two different subjects. Mr. Stuart Ormandroyd dealt with the problems of wet greens and greens construction whilst his colleague Mr. Steven Isaac spoke in great detail about turf diseases, their cause, prevention and cure. The turnout was excellent with some 40 members enjoying an interesting and enjoyable afternoon. Our thanks to Messrs. Ormandroyd and Isaac and to the STRI. With the approach of the Association's AGM, an informal discussion on matters relating to the BIGGA formed the basis of

our March meeting. Mr. David Golding, our Regional Administrator, kindly agreed to come and join us and was able to contribute a good deal of news and comment to the debate. It was clear from the general feeling of the meeting that problems still exist and answers need to be found soon if the momentum of the Association's progress is to be maintained. However, we were impressed with David's enthusiasm and I feel sure that providing the Board's decisions reflect the feelings of the rank and file member most of the problems can be resolved.

G. Brammah

SCOTTISH REGION

Central Section

The two Section lectures in February proved to be very successful, with both of them being well attended. We are indebted to the Council and members of both Tulliallan and Ladybank Golf Clubs for granting us the use of their clubhouses to hold these events and also our sincere thanks go to the speakers, Jimmy Kidd (Gleneagles), John Souter (Souter of Stirling), Keigh Vertigan (Sisis), Nander Robertson (Glenside Organics) and John Hutt (Rigby Taylor) for their excellent presentation of their particular subjects. The Section Spring Outing, will be held courtesy of Falkirk Tryst Golf Club, Larbert on Thursday 21st April, and all entries for this event must be in by 14th April.

The Autumn Outing has been arranged for Thursday, 29th September at Alloa Golf Club, Alloa.

Notice of the Inter-Club Tournament and the proposed bowls matches will be sent out with the Spring Outing entry forms, so if you wish to participate in any of these events, please return your forms promptly.

On his retirement, in February, from Souter of Stirling, the members made a presentation to Jock Armstrong for all the hard work and assistance he had given to the Central Section since its formation in 1980, when he was elected onto the Committee of which he has been a member ever since.

The best wishes for a long and healthy retirement go to Jock from all his friends in the Central Section.

The following is a letter sent to the Committee of the Section by Jock:

Dear Fellow Members,
I would like to take this opportunity to thank you all for your very generous and lovely gift of a crystal whisky decanter. It has been a great honour for me to have been a member of the Central Section over the past years and indeed have met and enjoyed your friendship as well. It was a most unexpected gift and I have been at such a loss for words.

I can only thank you most sincerely once again for your kind thoughts and good wishes, and hope that our friendship continues to be as enjoyable in the coming years.

Yours sincerely
Jock Armstrong.

Would any member who wishes items of information included in future Section Reports please forward them to me as soon as possible. It is your own Association, so please make an effort by contributing to make it successful.

John Crawford.

West Section

The West Section held their AGM on Monday, 1st February at Renfrew Golf Club, which was attended by 22 greenkeepers, 3 Trade members and 1 Associate member. The AGM went very smoothly with Bob Fitzpatrick handing over the Chairmanship of the West Section to Cecil George, and his Vice-Chairman Raymond Day. The new Committee are:-

Chairman - Cecil George
Vice Chairman - Raymond Day
Secretary - Robert Brewer
Committee
Chris Kennedy
Robert Fitzpatrick
David Gall
David Hyndmarsh
Steven Hogg
James Gray
Gordon Kerr
James McKenzie
Richard Aitken (Trade)
and Kenneth Hunter (Trade)
Sub Committee Convenors:
Education - C. N. George
Finance - R. Aitken
Social - J. McKenzie
Match & Handicap - R. Day

The West Section Spring Outing will be held at East Renfrewshire Golf Club on 28th April. The cost for the day will be £10.00 which will include morning coffee, a 3 course lunch and high tea. The Autumn Outing is provisionally booked for Tuesday, 6th September at Gleddoch House Golf Club. Congratulations go to James McKenzie for his new post as Head Greenkeeper at Renfrew Golf Club. James was previously employed by Cawder Golf Club. Also congratulations go to Jamie Coutts who has moved from Beasdale Golf Club to Walton Heath Golf Club as Assistant to Clive Osgood. The Committee wish both greenkeepers all the best in their new positions. The Committee of the West Section would like to wish everyone in the West a great golfing year and hope to see as many members as possible at the outings, etc that have been organised.

R. Brewer



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RECOMMENDED MINIMUM SALARY/WAGES SCALE

In response to many requests, the Association has formulated a recommended minimum salary/wages scale for 1988, although actual figures remain the subject of negotiation between the golf club and greenkeeping staff. The quoted rates apply to 18 hole golf courses.

Course Manager/Head Greenkeeper	£12,650 per annum*
Deputy Course Manager/Head Greenkeeper	£ 9,100 per annum*
First Assistant	£150.96 per week *
Assistant Greenkeeper	£141.54 per week *
Apprentice 50% of Assistant Greenkeeper rate i.e. and to increase annually by 12.5%	£ 70.77 per week *

The First Assistant is a post designed to recognise a third-in-charge where appropriate to the size of the club. In cases where the First Assistant is the recognised Deputy the appropriate salary scale of £9,100 per annum should apply.

N.B. Staff in possession of recognised qualifications should have this reflected in an addition to basic salary.

* Basic conditions of employment should include:-

- (1) where accommodation is provided by the Club it should be rent and rates free with heating/lighting costs borne by the club.
- (2) where accommodation is not provided by the club a suitable remuneration should be paid.
- (3) 40 hour week
- (4) Retirement Pension Scheme
- (5) Telephone costs on club business
- (6) Mileage allowance
- (7) Time off to attend lectures, demonstrations, BIGGA functions and tournaments.
- (8) If not salaried, basic overtime to be paid at time and a half with double time on Sundays and Statutory Holidays.

OBJECTS OF THE ASSOCIATION

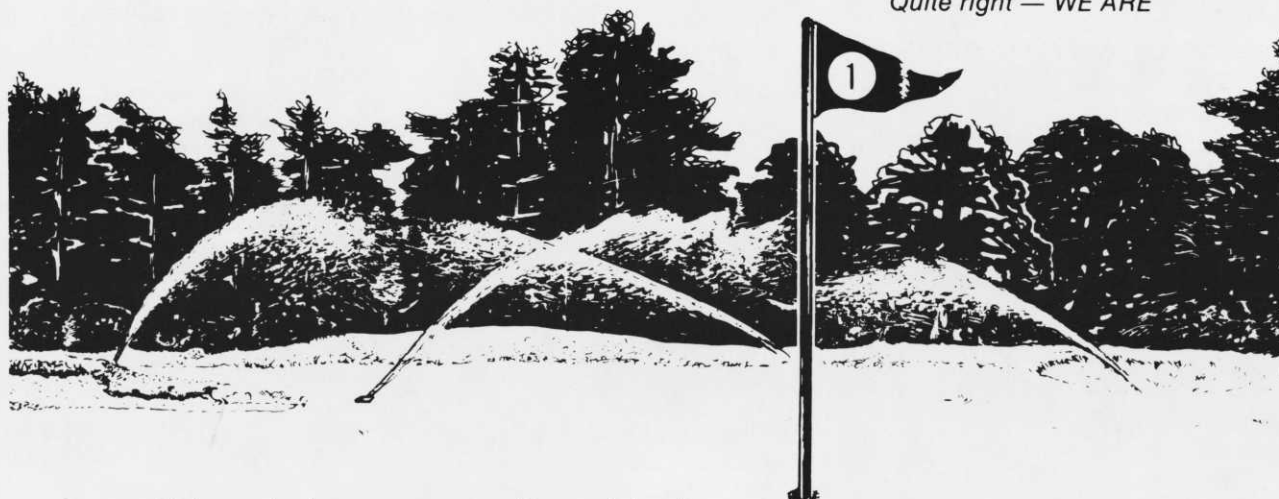
To promote and advance all aspects of greenkeeping; to assist and encourage the proficiency of members; to arrange an International Annual Conference, educational seminars, functions and competitions; to maintain a Benevolent Fund; to act as an employment agency; to provide a magazine; to collaborate with any body or organisation which may in any way benefit the Association or its members or with which there may be a common interest; to carry out and perform any other duties or responsibilities which shall be in the general interests of the Association or its members.



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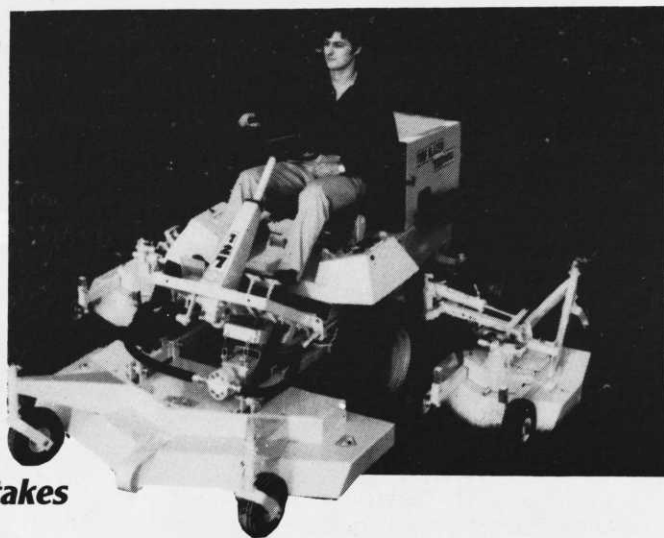
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Figure 1: Initial symptoms of take-all on fine turf



Figure 2: Classic symptoms of take-all

RESEARCH UPDATE

Neil Baldwin, plant pathologist at the Sports Turf Research Institute, continues his research and, in this article, describes the cause of take-all patch disease and its prevention and control.

FOR over a century, take-all patch disease has been recognised in agriculture as a problem of global importance, limiting significantly the productivity of pastureland and cereal crops.

On British golf greens however, take-all was relatively unknown until the 1950's when, to correct the extreme acidity of fairways of heathland courses, heavy applications of lime were made. Liming encourages take-all, and severe outbreaks were recorded.

During the next 25 years the damage done by liming was recognised and as this practice ceased, take-all declined. However, for reasons discussed later, take-all is once again on the increase. Consequently, due to the very destructive nature of take-all, its persistence and the absence of a chemical control measure, take-all is regarded as a potentially very serious problem in turf management.

Take-all is caused by the fungus *Gaeumannomyces graminis*, until recently named *Ophiobolus graminis*, hence the old common name for the disease, *Ophiobolus* patch. To standardise the names used for diseases on a worldwide basis, the correct name for this disease is now 'take-all' and the use of all previous names has been discontinued.

On golf greens, the disease often appears initially as saucer shaped, slightly depressed bare areas (Figure 1) consisting mainly of dying bentgrasses. Accurate diagnosis of the disease at this early stage can only be made by laboratory examination. If help is needed, send a turf sample to the STRI.

These small patches may then enlarge into a ring, measuring up to 30 cm in diameter (Figure 2), of bleached or bronzed bentgrasses, the centre of each ring being occupied by plants resistant to the disease such as fescues, annual meadow-grass

and broad leaved weeds. Eventually, adjacent rings may coalesce, resulting in large irregular patches on greens or fairways (Figure 3). Although the disease is active only during the warmer parts of the year, the symptoms of attack usually appear in late summer.

DISEASE CYCLE

While most greenkeepers are aware that it is the bentgrasses that are very susceptible to take-all and consequently suffer most damage, the way in which the disease attacks the plant is not widely understood.

Take-all survives the winter in the soil as spores and dormant mycelium awaiting more favourable conditions the following spring. When warmer soil temperatures arrive, the fungus penetrates the vascular tissues of the plant, thus preventing the uptake of water and nutrients. Infected roots then turn brown and die and consequently affected turf may be easily detached from the surface. The disease then spreads up the plant as runner hyphae (thick mycelial threads which run in lines on the surface of the plant) which eventually penetrate the crown and kill the plant. The disease then produces flask shaped structures (perithecia) filled with spores which can then be spread by wind or water-splash to new areas.

FAVOURED CONDITIONS

When a greenkeeper first experiences the disease on his course the first question he may ask is "Why has the disease suddenly appeared here?" In fact the disease has probably been present all the time.

During the 1970's an extensive survey of British golf courses revealed that *Gaeumannomyces graminis* is nearly always present in turf at low population levels, even if the symptoms of disease attack have not been seen. Thus, if the

fungal inoculum with potential to cause take-all is there, the disease can develop once turf conditions are favourable.

There are two main reasons why take-all in most situations remains at these naturally low disease levels.

Firstly, present in the turf and soil are many other fungi and bacteria that are antagonistic to take-all and suppress the disease to such an extent that its pathogenic activities are almost totally inhibited.

Any turf management practice that is detrimental to these antagonists may consequently lead to an outbreak of take-all. For example, sand-constructed greens are naturally low in antagonists and as such, are prone to take-all. The use of sterilised turf or materials in which the antagonists have been killed also aids rapid colonisation by take-all.

Secondly, a strong relationship between turf pH and take-all has been identified. It has now been well established that a sudden raising of the turf pH by the (often not deliberate) application of alkaline materials can lead to severe take-all attacks.

On golf courses, the application of lime is rare and generally only acidic fertilizers are used. However, there are several other possible sources of alkalinity. If water is taken from irrigation bore holes it can be hard, i.e. contain lime. Thus, every time the watering system is used, lime is being applied. However, in most cases this is not of major concern as not all water classified as "hard" has a high enough lime content to appreciably raise the turf Ph. Another important source of lime is the sand used either in construction or top dressing. If this sand has a high lime content then, particularly in wet regions where the lime can go into solution quickly, a rapid increase in turf pH can occur.

PREVENTION AND CONTROL

It must be emphasised that once the disease has become established, there is no effective control measure.

At present two fungicides, namely carbendazim and

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RESEARCH UPDATE

<<

chlorothalonil, have a manufacturer's recommendation for control of take-all. At best these chemicals will give short term suppression of the disease only, and sometimes, following an application of these materials, the take-all will reappear at higher levels than previously. It is thought that the reason for this is that the fungicide will inhibit fungi in the soil that are antagonistic to the take-all and consequently this biological control mechanism is lost.

Consequently, fungicides may inhibit the process of take-all decline (see later) and therefore applications should be kept to a minimum. However much can be done to lessen the severity of a take-all attack. All efforts must be aimed at preventing outbreaks.

Firstly, the conditions under which the disease is likely to occur must be recognised. The sand construction method of building greens appear particularly vulnerable as sand can support only a low population of antagonists. There is some evidence that new courses built in woodland areas (where soils are low in antagonists) are also prone to the disease. By far the best prevention of take-all can be achieved by careful management of turf pH. Any practice that will rapidly increase turf

pH should not be used. Determine the lime content of sands used for construction, bunkers or top dressing. Also, be aware of any other possible sources of alkalinity, e.g. fertilizer and irrigation water.

A long term solution to take-all is offered by a phenomenon known as take-all decline, in which, given the right conditions, the disease will become less severe and disappear of its own accord. Consequently, once the disease has become established, our aim must be to establish these conditions so that the eradication of take-all is achieved as quickly as possible.

TAKE-ALL DECLINE

The decline of take-all takes place when the disease, after being present in an area for a number of years, apparently disappears, even if no active control measures have been taken.

In this country, three years may elapse before the disease becomes severe and may then be present at significant levels for a further one or two years.

Associated with this increase in severity of take-all is a build up of antagonistic fungi and bacteria in the soil.

Eventually the antagonists reach a point where they are able to inhibit the take-all and consequently the disease declines. These antagonists can be divided into two groups. Firstly, bacteria, certain soil fungi such as *Trichoderma* spp and streptomyces which are able to produce antibiotics

and thus inhibit the take-all. Secondly a fungus known as *Phialophora* has been shown to colonise roots and thus leave little available root for take-all attack. Experiments are in progress at the STRI in which laboratory cultures of fungi have been added to turf infected by take-all in an attempt to boost



Figure 3: Extensive take-all damage

this process of decline.

Take-all decline can be promoted as follows: As new outbreaks of the disease occur rarely in acidic turf, take-all can be discouraged by application of calcined sulphate of iron.

Application of fungicides should be kept to a minimum as they may inhibit the build-up of antagonists responsible for take-all decline. Outbreaks of fusarium patch disease can be prevented to a great extent by cultural control methods, thus minimising the need for fungicides.

Ensure healthy vigorous turf growth by supplying essential nutrients. Phosphates promote good root growth (and consequently discourage take-all) and potassium is generally regarded as beneficial as it enables the plant to withstand disease attack. Whilst these elements are often present at adequate levels in most greens, chemical analysis of soil samples in cases of take-all outbreak can determine the need for any fertilizer applications.

G. graminis, the causal fungus of take-all, survives unfavourable periods on dead plant material in the thatch layer. Remove excessive thatch by mechanical operations, e.g. hollow tining and scarification.

Take-all is usually most severe on wet, water retentive turf, as the disease spreads in water. Attention to drainage is consequently important.

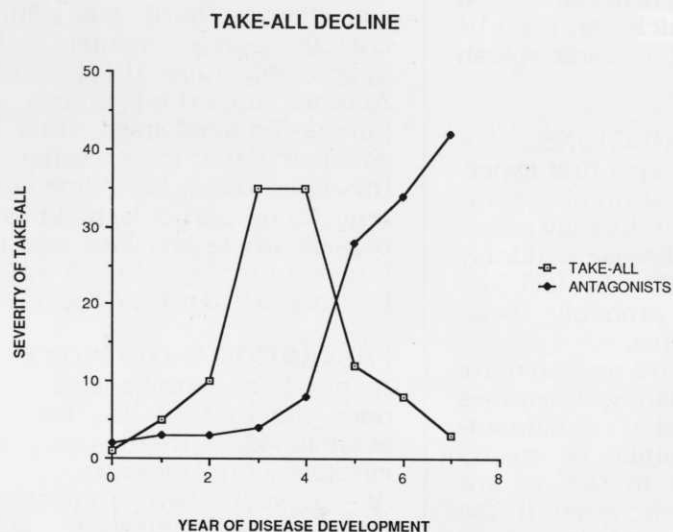
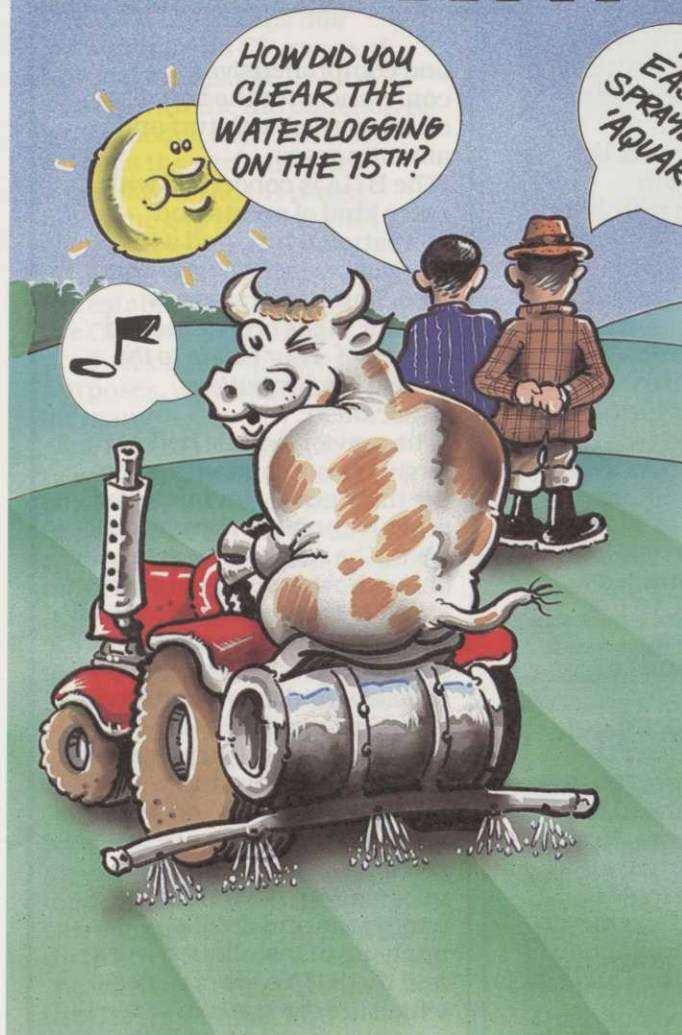
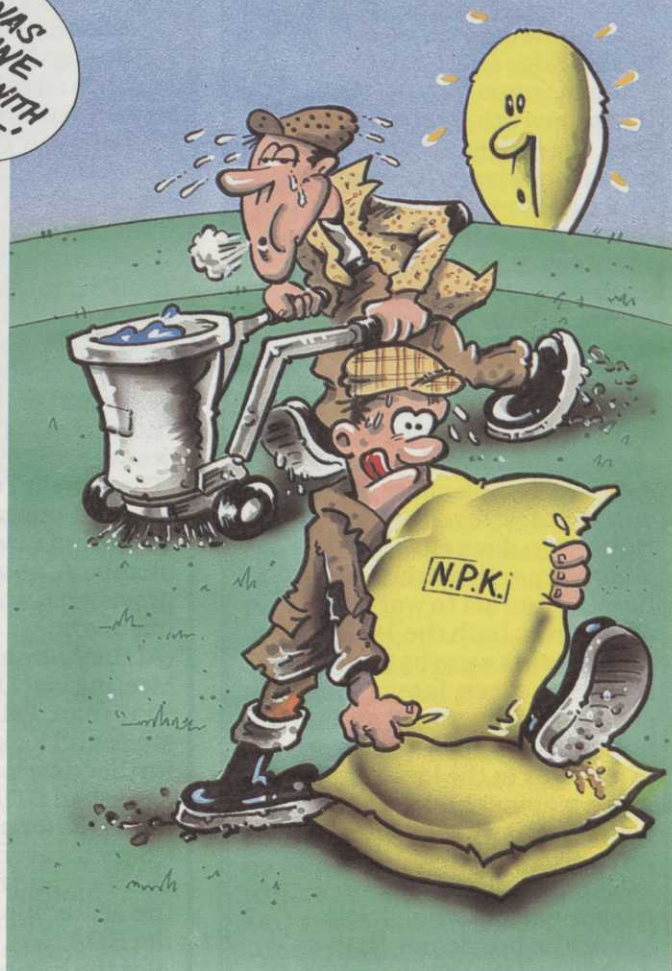


Figure 4: Take-all decline

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NOTEBOOK...

6th Tournament

DESPITE the October hurricane which swept south east England and changed the landscape overnight, the 18 and 9-hole courses at Woodbridge Golf Club in Suffolk, venue for this year's Ransomes 6th International Golf Greenkeepers and Superintendents Tournament, are back in excellent shape.

At the previous meeting three years ago at St. Andrews, 13 countries were represented at the tournament, and this year's event at Woodbridge, on Wednesday, 5th October, is expected to attract competitors from even more countries.

Bordering the club's 9-hole course is Rendlesham Forest, virtually destroyed by the gale. But within days after head greenkeeper Lyn Arbon and his staff had set to work with chainsaws, both the 18 and 9-hole courses were back in play. None of the tees, fairways or greens were damaged and although members are aware of changes in the landscape when playing the 18-hole course, it has not lost any of its charm.

Although the 9-hole course itself is back to what it was before the hurricane, the devastated Rendlesham Forest leaves visitors in no doubt about what happened in October.

Pictured below is Lyn Arbon, head greenkeeper at Woodbridge Golf Club.



BRITISH TURF IRRIGATION ASSOCIATION

THE Buyer's Guide in this issue includes for the first time a full listing of all full and provisional members of the British Turf Irrigation Association. These members are committed in their work to the published standards of the BTIA, and to the Code of Ethics and the conditions and details applying to installation work which are set out in the *Guide to the BTIA*, obtainable from the BTIA Secretary (address below and in the Buyer's Guide entry) at £2.50 including postage.

The British Turf Irrigation Association was founded in 1978, and now has 19 full members, as well as provisional and associate members.

At the Annual General Meeting last December the chairman, Peter Roberts, took stock and looked ahead to further developments. He described BTIA participation in the National Turfgrass Council's event at Coventry in October, and the production of the new edition of the *Guide to the BTIA*.

For the future, he spoke of the need for a professional qualification within the industry: the Association was already working on this, to develop a structure of training which would lead to the certification of Association members' staff, and so improve still further the service they could give and the confidence with which customers could deal with BTIA members. Peter Roberts also foresaw closer liaison with the water industry on technical matters; with the landscaping industry to widen and develop the use of irrigation in landscaping work; and with the various organisations represented in the National Turfgrass Council to help the NTC become the focus for regular

and comprehensive conferences for the benefit of all concerned with turf and amenity grass.

The BTIA is concerned with every kind of sports and recreational turf, and with landscape uses of irrigation also. This broad scope is evident in the recent second edition of *Your Guide to the British Turf Irrigation Association*.

The previous guide had been largely concerned with golf in the minimum standards and other technical information it gave. The new and larger guide shows how general minimum standards can be applied to all turf and landscape irrigation systems, in addition to those special standards which are then explained for golf courses, bowling greens, sports areas of all kinds, and landscapes.

The guide also has a new section of "useful information", as well as the conditions and details applying to installation work and the BTIA code of ethics which are the basis of customer confidence in the members of the Association. Behind it all is the assurance that a client or customer may have recourse to the BTIA secretary in all cases of dissatisfaction with work by a member of the BTIA and if adequate redress has not been obtained after taking the matter up with the contractor.

The Association's secretary is an officer independent of all member companies, and would deal with any problem as fully, quickly and carefully as possible, to maintain the good name of the Association. All this information is in the guide, obtainable on payment of £2.50 (postage included) from The Secretary, British Turf Irrigation Association, 3 Ferrands Park Way, Harden, West Yorks. BD16 1HZ.

NOTEBOOK...

New pump from Grundfos

GRUNDFOS pumps has strengthened its CR range of Vertical Multistage In-Line pumps with the introduction of a new model, the CR8, which extends the performance capability of the CR range, filling the gap between CR4 and CR16 models.

The CR8 will gradually replace the established CP8, although the CP8 will continue in production for replacement purposes, with spares available for many years.

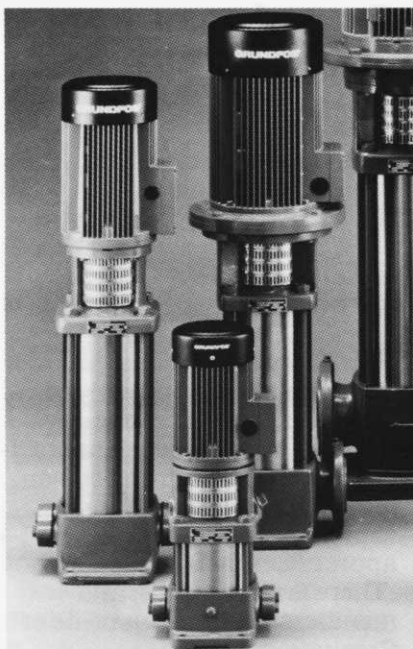
The manufacturers say the new pump provides greater efficiency, as well as an improved NPSH curve, smaller more compact dimensions and reduced weight.

Covering flows from 6 to 12 M3/hr, the CR8 offers 13 performance variations at heads up to 205 metres, with a liquid temperature range of - 20 degrees centigrade to + 120 degrees.

Models CR8-10 to CR8-120 have a maximum operating pressure of 16 bars, whilst models CR8-140 to CR8-200 can operate at system pressures up to 25 bars.

As with the entire CR range, the CR8 is suitable for numerous water supply applications, including industrial transfer and cooling circuits, boiler feed, pressure boosting and distribution for factories, high rise dwellings and offices.

The new pump continues the Grundfos tradition of using fabricated stainless steel for vital components such as



impellers, intermediate chambers and outer sleeve. This material combines strength, light weight and resistance to corrosion, ensuring sustained performance, long life and operational efficiency.

The use of a splined pump shaft enables improved assembly and faster, easier service. Additionally, split coupling allows motor removal and replacement without dismantling the pump unit.

Diamond polished tungsten carbide faces are used for the mechanical shaft seal, giving resistance to wear. The water lubricated pump bearings are manufactured from tungsten carbide and ceramics to ensure long operating life between service intervals.

Further information can be obtained from Grundfos Pumps Ltd on (0525) 850000.

THE Institute of Groundsmanship is to move its annual IOG Sports and Leisure World Trade Exhibition from Windsor Racecourse to the East of England Showground at Peterborough in 1990.

The move has been made necessary because of the exhibition's unprecedented success: new and existing exhibitors are clamouring for space, the 35,000 visitors annually have increasing expectations, and there is a growing number of delegations from overseas.

While the Institute greatly regrets that the move will terminate a long and happy association with Windsor Racecourse, it looks forward to the development which will now be possible as a result of the more extensive and sophisticated facilities at Peterborough.

The change of venue brings one other marked benefit for exhibitors - the 1990 exhibition date will be almost two weeks earlier in the calendar, September 4, 5 and 6.

The 1988 exhibition will, of course, take place at Windsor on September 20, 21 and 22, whilst the 1989 dates (at Windsor) are September 19, 20 & 21.

Underlining the need for a move, this year's exhibition will be the largest ever. A record amount of trade stand space has already been booked; there is a greater demand for the demonstration areas; and a heavier than usual number of inquiries both from the UK and overseas have been received.

The total showground site at Peterborough covers some 310 acres of fine parkland, providing approximately 365,000 sqm of outdoor space, and 2,500 sqm of indoor accommodation - with a further 4,500 sqm covered space held in reserve.

Of the 105 acres allocated to the event, 60,000 sqm have been reserved immediately adjacent to exhibitors' stands for working demonstrations.

For further information, contact the IOG on 0908 311856.

Pesticides Applications Log

DUE to the requirements of the Control of Pesticides Act 1986 to record all spraying operations, Chipman Limited have produced "The Chipman Pesticides Applications Log" to enable operators to record accurately the spray applications they make.

The applications log contains all the necessary information

to be recorded - rate of application, area to be treated, spray volume etc and a special "tear off" instruction sheet for each operator.

They are available direct from Chipman technical representatives or contact Chipman, on Horsham (0403) 60341 or Harrogate (0423) 68658, for your copy.

NOTEBOOK...

THE Master Groundsman and Young Groundsman of the Year Awards for 1988 are once again being organised by the Institute of Groundsmanship, and this year ICI Professional Products have agreed to be sponsors of the event.

The annual Awards, now in their eighth year, have undoubtedly become the sports and leisure industry's most rewarding competition - with dozens of prizes, totalling £10,000.

The Master Groundsman and Young Groundsman of the Year will each win a trip to the GCSAA Convention, which will be held in Anaheim, California in February 1989. They will also receive an engraved silver salver.

The runner-up in each category will be invited to an extended weekend in Germany where they will visit research facilities and trials centres.

The two third prize winners will be invited to visit the ICI salt mines in Cheshire - a mile underground! - and Europe's biggest.

All 18 finalists will receive an engraved crystal decanter.

The employer of both the Master Groundsman and the Young Groundsman of the Year will receive £500 worth of "Longlife" turf fertilisers from ICI Professional Products. Similarly, the college, university or study centre with the largest number of student entries will receive £500 worth of "Longlife" fertilisers.

Groundsman awards total £10,000

The IOG branch with the highest number of its own members taking part in the 1988 competition will receive a cash award of £100. There will be runner-up prizes of £75, £50 and £25.

The competitions are open to everyone involved directly in the management or maintenance of sports and leisure turf-culture facilities: groundsman, greenkeepers, park officers, estate managers, trainees and apprentices, and students.

There is no entry fee, and membership of the Institute of Groundsmanship is not necessary.

The Master Groundsman competition is open to everyone over the age of 22, and there is no upper age limit. Entrants for the Young Groundsman of the Year competition must be over the age of 16, and not have reached 22 years by 31st December 1988.

The final date for receipt of entries will be 12 noon on Tuesday 31st May 1988, and initial adjudications will take place during June 1988.

Regional interviews will be held during the period July/August and will be conducted by representatives of the Institute of Groundsmanship, ICI Professional Products and

the local ICI Professional Products distributors. The distributors will be organising prizes for the regional semi-finalists in each category.

Finally, nine regional Master Groundsman and nine regional Young Groundsman finalists will be invited to spend an expenses-paid day in London on Monday 31st October 1988, where they will be seen personally at The Reform Club, in London's Pall Mall, by a panel comprised of representatives of the Institute of Groundsmanship, the Technical Services Division of ICI Professional Products, and independent experts.

The panel's decision will be announced that same evening at the annual IOG Educational Awards ceremony, also held at The Reform Club, where the winners and runners-up will receive their prizes.

The nine regions of the competition are: Scotland; Northern Ireland; North-West England and North Wales; North-East England; The Midlands and Central Wales; East Anglia; London and South-East England; South West England and South Wales; and Eire.

Entry forms are now obtainable from The Institute of Groundsmanship, 19-23 Church Street, The Agora, Wolverton, Milton Keynes, Bucks and ICI Professional Products, Woolmead House East, Woolmead Walk, Farnham, Surrey.

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NOTEBOOK...

Flying visit

NINE sales staff with Frews, Ransomes' dealer for the the majority of Scotland, flew from Edinburgh to Norwich and on to Ipswich by road, to attend two days of training at the Company's Nacton Works. Although most of them are men of long experience and standing within Scotland's turfgrass industry, they nevertheless welcomed the opportunity to be brought up to date with Ransomes product range and to discuss matters of mutual interest with the



company's marketing and technical personnel.

In addition to spending time in the classroom, the visitors also tried out the equipment

for themselves. The opportunity was also taken for them to see something of Ransomes product development and manufacturing facilities.

STRI retirements

TWO long-serving, senior STRI staff members retire together on 13th May 1988. They are Mr J P Shildrick, BA, CBiol, MIBiol, FIHort, who has been the assistant director for 20 years, and Mr B M Wood, GCIS, who has been the secretary for 33 years.

John Shildrick's principal involvement has been with the Institute's research programme. He has initiated many new projects over the years, including pioneering the testing of grass cultivars for amenity use. This latter resulted each year in the production of the Turfgrass Seed leaflets outlining the attributes of good cultivars of turfgrasses which are

marketed for sports turf use.

Brian Wood, as institute secretary, has been essentially a "back-room boy" whose many responsibilities have included the administration, personnel and accounting functions of the Institute.

The secretary designate is Mr T R Wheeldon, FCA, who has wide industrial experience as a financial director and company secretary in textiles.

FERTILISER specialists Vitax Limited have appointed a new distributor for their Key Range of products designed for sports turf, amenity areas and the leisure industry in South Wales. They are Celtic Mowers Ltd, Celtic House, Fabian Way, Swansea, West Glamorgan, Tel: 0792 41517/41220

New Consultancy

JON ALLBUTT, until recently technical manager for Synchemicals Ltd, has announced the launch of his new venture, **Jon Allbutt Associates**, a consultancy that specialises in service to amenity horticulture.

Concentrating initially on giving advice and support to managers who are dealing with the new FEPA regulations, Jon Allbutt Associates offer a comprehensive service from design and positioning of stores, choice of chemical pesticides and spraying systems to conducting an audit to determine the number of employees requiring training and certification. Tel: 0959 75575 for details.

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NOTEBOOK...

Cushman going great!

SUSTAINED recognition of the year-round turf maintenance capabilities of the Cushman Turf Care System has been marked by excellent sales figures for the past six months.

In fact, more than 50 Turf Truckster vehicles, complete with Huxley and Cushman turf-care and load-carrying attachments, have been delivered to customers and dealers since the 1987 Royal Windsor Show by the Cushman distributor for the British Isles, Huxleys Grass Machinery.

It is clear that greenkeepers and other professional groundstaff continue to appreciate the time, labour and cost-saving contribution that Cushman equipment can make to their all-season turf maintenance operations.

First sold in Britain by Huxleys more than ten years ago, the Cushman Turf Care System today comprises the 2

and 4 Wheel Turf Truckster vehicles together with a complementary range of specialist attachments.

Turf-care equipment includes aerators, a scarifier, a top dresser, a sprayer, a drag mat and brush, a mole blade, reel mowers and a fertiliser spreader. Huxleys also offer a number of alternative load-carrying bodies.

Huxleys believe that there is no better way for prospective purchasers to judge the attributes of the Cushman Turf Truckster and its range of attachments than by a working demonstration on their own ground and they will be delighted to arrange this in any part of the UK.

For further information, contact Huxleys Grass Machinery at either Hillside, Thorpe Lea Road, Egham, Surrey TW20 8JG (Tel: 0784 38666) or The Dean, New Alresford, Hampshire SO24 9BL (Tel: 0962 733222).

Bob Wiles, head greenkeeper at the RAC Country Club, Surrey, with the club's latest Cushman Turf Truckster



WINNER of the Maxicrop Supergrass Competition at Scotsturf '87 was district parks superintendent, Mr N Trainer of Aldbar Cottage, by Brechin who won a gift voucher for £100.

Almost 200 people entered the competition, and the answers to the questions demonstrated considerable awareness and knowledge of the Maxicrop amenities range. Not

surprisingly, the main stumbling block for most competitors was estimating the number of horses exercised each day on the gallops at Newmarket, where Maxicrop is used to great advantage. (Answer: 2,500).

Runner-up in the competition and winner of a £50 voucher was Mr R Bartlett of Girvan, who is a greenkeeper at Turnberry.

Handy fleet of mowers...

DEREK BELCHER, director of Handy Garden Machinery, Swindon, casts a final eye on the latest fleet of Allen National 68 Triple Mowers the company is supplying to Gloucester Education.

The Allen National 68 is being supplied in 1988 with a Kawasaki 7.5hp four stroke engine as standard.

The smoothness and quiet running of this engine is already proving a popular feature with operators using the first of the 1988 production machines.

Also now as standard are six bladed cutting cylinders all round. What has not altered is the price, unchanged for two years at £2795 plus VAT.

For further details on the Allen range, phone Allen Power Equipment on (0235) 813936.



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ROVRAL GREEN contains iprodione
ROVRAL GRANULES contains iprodione
SUPER MOSSTOX contains dichlorophen
CASTAWAY PLUS contains thiophanate-methyl/lindane
CROSSFIRE contains chlorpyrifos
MOWCHEM contains mefluidide
CLEARWAY contains simazine/aminotriazole/ammonium thiocyanate
SPASOR contains glyphosate
All other brand names are trade marks. **CROSSFIRE** is a product of The Dow Chemical Company, sold under licence. **SPASOR** is a product of Monsanto PLC., sold under licence. **MOWCHEM** contains mefluidide which is a product of Gordon International sold under licence. **DYON** is a product of The Regal Chemical Co., sold under licence. **LURMARK** is a product of Lurmark Ltd, sold under licence.

NOTEBOOK...

Free leaflet from Rocol

A NEW colour leaflet from Rocol shows how to mark out all kinds of surfaces quickly and easily using the Rocol Easyline system.

The leaflet illustrates the full range of eight Rocol Easyline applicators together with twelve highly visible marking paints and two stencil kits, all designed for professional marking inside and out. Typical applications are shown - car parks, warehouses, road repairs, school playgrounds and sports centres, etc.

Details of the twelve Easyline applicators (eight standard, four fluorescent) available line widths and major range features are also shown.

Copies of the leaflet are available from the publicity department, Rocol Limited, Rocol House, Swillington, Leeds LS26 8BS.

PILTAND CHEMICALS are now distributing the effective fumigant Phostoxin for mole control in amenity grass areas

Phostoxin is packed in aluminium flasks contains 30 x 3g tablets and the minimum order is one pack of ten flasks.

Further information, and a leaflet on mole control, can be obtained from Pilmland Chemicals, Woodcroft House, Old Vicarage Drive, Appleby, South Humberside, DN15 0BY. Tel: (0724) 734025 or 732101.

Turfland roadshow on the road

THE Turfland Roadshow is on its way!

During March and April Turfland Professional Ltd will be demonstrating many of the range of Brouwer turf-care machinery at selected locations throughout the UK.

The Brouwer range of turf-care machinery includes turf rollers, sodcutters, verticut and reel mowers, vacs and fairway mowers. They all have an excellent record for quality and reliability, with first-class spares and back-up service provided by the Turfland team and their wealth of expertise.

The Roadshows present the

existing and prospective customer with the invaluable opportunity of examining and seeing in action the Brouwer machinery at first hand, before buying, and of speaking to the experts. In tandem with the Roadshows a competition is being run, the first prize being a luxury expenses-paid weekend for two in Cheshire, with theatre tickets and a Chinese Banquet thrown in for good measure.

Entry to the Turfland Roadshow is by invitation only. For your personal invitation, and for details of dates and venues, ring Janet Westmore on 09286 272/261.

New literature

MAXWELL HART have just produced some new items of product literature for the recreation and amenity market which are intended to broaden the reader's awareness and understanding of a given subject at the same time as imparting the latest details of the Hart product range.

The most significant example of this is seen with the "Passport" series of booklets on Fertiliser, Grass Seed and Chemicals. The former two were first published in Spring 1987 and such was the response from customers, the print run for these new editions has been increased by 300% and a chemical booklet

is included for the first time.

Copies of this literature are available, free of charge, from the Hart sales offices or representatives, although some 4,000 customers will have received passport booklets through the post already.

BRITISH SEED HOUSES have announced that their 1988 Amenity Grass Seed, Sports-ground, Fertiliser and Wild Flora catalogue is now available. The catalogue has been completely redesigned this year, and includes a novel mixture selector chart where, at a glance, it can be seen what grasses are being used in a given mixture.

For your copy, call Jonathan Franks on 0865 510702.

GREENKEEPING COURSES

Reaseheath offers Greenkeeping Courses for 1988.

A Y.T.S. TRAINING PROGRAMME ... As managing agents for an approved Greenkeeping Training Scheme, Reaseheath can manage golf course placements.

PHASE II GREENKEEPING ... Available as both Day Release and Block Release

PHASE II GREENKEEPING MACHINERY COURSE ... A new course especially designed for greenkeepers to cover the principles of machinery, basic repair work and diagnostic fault analysis.

PHASE III GOLF COURSE MANAGEMENT ... A flourishing management level course for those having successfully completed Phase II and ambitious greenkeepers aspiring to management. (Limited numbers).

F.E.P.A. ... Foundation modules and Testing

... Operation modules and Testing available at:-

REASEHEATH

for further information on any courses write to Dennis Mortram, Cheshire College of Agriculture, Reaseheath, Nantwich, Cheshire. CW5 6DF.

TURF MACHINERY HIRE

NOW IS THE TIME...

LET US HOLLOW TINE YOUR GREENS WITH THE

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MANY OTHER MACHINES

FOR SALE and HIRE

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THE TRULY NATIONAL TURF DRESSING AS
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A Superior Top Dressing, using soils with a low clay and silt content, carefully blended with Fenland Peat and Lime Free Silica Sand, shredded and sieved. Ready for immediate application to golf/bowling greens.

Save purchasing expensive equipment, which stands idle for much of the year. Also high labour costs and problems of finding suitable ingredients of constant quality.

BULK DELIVERIES TO ALL PARTS OF THE UK IN 10, 15, 20, 25 TONNE LOADS. CUSTOMERS IN BELFAST, ABERDEEN, PLYMOUTH, EAST ANGLIA, ETC.

PLEASE REMEMBER, THERE IS ONLY ONE TRUE FENDRESS, WHICH IS A REGISTERED TRADEMARK. BEWARE OF IMITATIONS.

Pre-Packed supplies available. Special mixes to your specification prepared. Also, Screened Sedge Peat ("Fenpeat") in bulk. Lime Free Sands, White or Yellow. Screened Loam, etc.

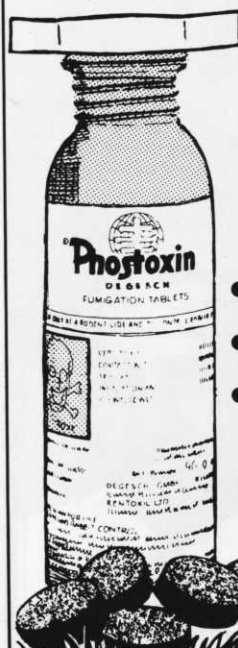
Please telephone T.J. Banks for quotations. You will be surprised by our competitive prices.



Contact: Fen Turf Dressings Ltd., Suite 3, Angel Court,
Dairy Yard, High Street, Market Harborough, Leics LE16 7NL.
Tel: Market Harborough (0858) 64346.

MOLEY SMOKE!

If you are getting the hump over unsightly mole hills, this is the effective treatment:



Phostoxin[®]

FUMIGATION TABLETS KILLS MOLES

Detailed leaflet gives you full information:

- On the biology and habits of moles.
- How to identify 'live' areas to be treated.
- How to apply Phostoxin tablets to ensure successful control.

Contact:

PITLAND CHEMICALS

Woodcroft House,
Old Vicarage Drive,
Appleby, Scunthorpe,
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Tel: 0724 734025 or 732101

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for total weed control
for up to 2 years.

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APPOINTMENTS

WOODCOTE PARK GOLF CLUB

require

ASSISTANT GREENKEEPER

Applicants must be experienced in greenkeeping, with knowledge of modern course machinery, its use and maintenance. Apply in writing to:-

**The Secretary,
Woodcote Park Golf Club,
Meadow Hill,
Bridle Way,
Coulson,
Surrey. CR3 2QG**

SHREWSBURY GOLF CLUB

(18 hole course)

Invite experienced applications for a

HEAD GREENKEEPER

Applicants must be fully experienced in all aspects of modern greenkeeping and machinery maintenance. Appointment to commence as soon as possible.

Salary negotiable.

Apply in writing with full C.V. to:-

**The Secretary, Shrewsbury Golf Club,
Candover, Shropshire. SY5 7BL**

Applications close Monday 25th April 1988.

FULLWELL GOLF CLUB HAMPTON HILL, MIDDLESEX

require a

HEAD GREENKEEPER

Applicants must be fully experienced in all aspects of Greenkeeping and have a good knowledge of course equipment and maintenance. Salary negotiable. Two bedroomed accommodation is provided. Membership of the BIGGA an advantage.

Apply in writing with full C.V. to:-

**The Secretary,
Fullwell Golf Club,
Wellington Road,
Hampton Hill,
Middlesex. TW12 1JY**

CALCOT PARK GOLF CLUB

Applications are invited for the post of

1st ASSISTANT GREENKEEPER

Applicants must be fully experienced in all aspects of modern greenkeeping, use and maintenance of machinery and staff supervision. Salary negotiable.

Accommodation available.

Please apply in writing giving age and experience to:-

**The Secretary,
Calcot Park Golf Club,
Bath Road, Calcot,
Reading. RG3 5RN**



Superb career opportunity in the Channel Islands

Guernsey's premier hotel invites applications for the position of

HEAD GREENKEEPER

We are looking to recruit a Head Greenkeeper for our Tony Jacklin designed 9 hole, par 3 Course.

Applications are invited from persons who have already held a similar position, or alternatively, from experienced 1st Assistants wishing to further their career.

The ability to motivate staff and maintain high standard is essential, and a knowledge of gardening would be an advantage.

This is an important position, which is reflected in the excellent salary that is offered, together with the benefits one would expect from Guernsey's leading 5 crown hotel.

Written applications and c.v. to:

Mr. T. C. Castledine, Managing Director,
St. Pierre Park Hotel, Rohais,
St. Peter Port, Guernsey, Channel Islands.
Telephone: 0481 28282



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Turf Rollers

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- Simple Lawn Replacement + Renovation • Lightweight and Compact • Ease of Operation • Minimum Service • Easy Transport and Storage • Adjustable Handles • Interchangeable Blades for Edging De-thatching + Shredding

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Complete Turf Technology

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Turf Nurseries

Tel: 09286-340 or 336



The Brouwer Vac

- Economy • Fast and Reliable • Self Unloading • Easy Access in Difficult Areas • Efficient • Optional Extension Hose • 335 Cu. Ft. capacity



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- Fixed or Floating Head • Lightweight High Stress Steel Frame • Hydraulic or Manual Lift for ease of Operation • Transportable • 4, 5, 6 or 7 Bladed Reels • Easy Hook Up • Versatile System

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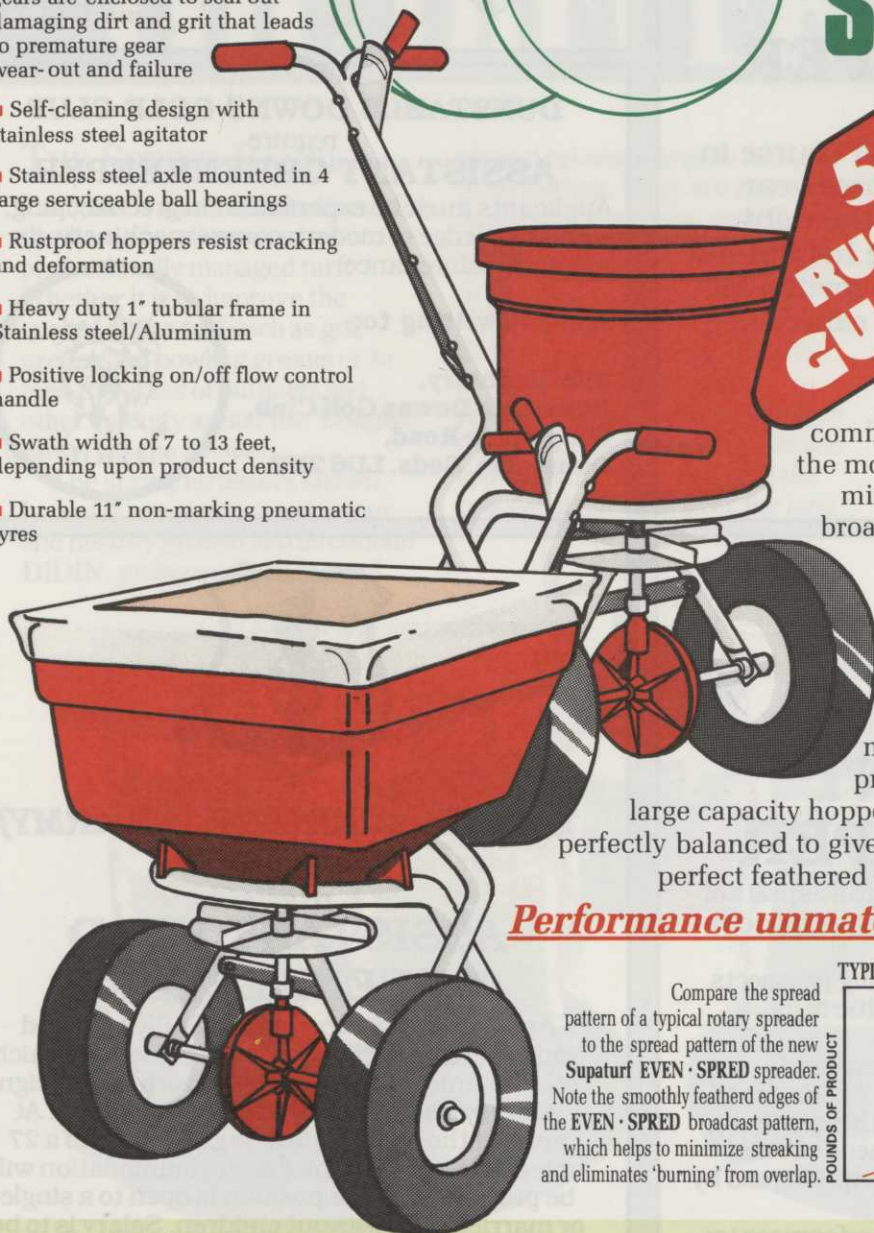
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a commercial
spreader built to last

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SPREADERS

- Permanently lubricated 5" gears are enclosed to seal out damaging dirt and grit that leads to premature gear wear-out and failure
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**5 year
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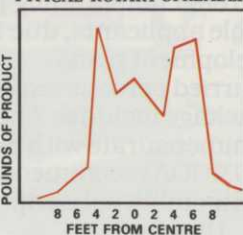


The **EVEN • SPRED** built by professionals for professionals • Designed to withstand the rigours of tough commercial turf care applications using the most modern materials and up to the minute technology • **EVEN • SPRED's** broadcast system is totally self cleaning and rustproof to ensure years of dependable service • **EVEN • SPRED's** huge 5" enclosed gears seal out damaging dirt and grit to help eliminate premature gear wear • All **EVEN • SPRED** models are manufactured with rust-proof heavy duty tubular frames and large capacity hoppers. The **EVEN • SPRED** is light and perfectly balanced to give a smooth efficient operation and a perfect feathered edge for even broadcast every time.

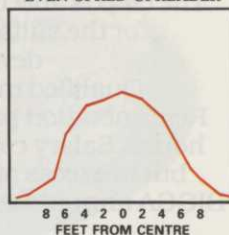
Performance unmatched by the competition

Compare the spread pattern of a typical rotary spreader to the spread pattern of the new Supaturf **EVEN • SPRED** spreader. Note the smoothly feathered edges of the **EVEN • SPRED** broadcast pattern, which helps to minimize streaking and eliminates 'burning' from overlap.

TYPICAL ROTARY SPREADER



EVEN • SPRED SPREADER



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Normanton
Wakefield
West Yorkshire
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Tel: (0924) 891000

South
Dromenagh Farm
Seven Hills Road
Iver Heath
Buckinghamshire
Tel: (0895) 832626/834198

South West
D.O. Hunt Limited
14 Fairfax Road
Heathfield
Newton Abbot
Devon
TQ12 6UD
Tel: (0626) 834499

Midland & South Wales
Unit 104B
Hartlebury Trading Estate
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Worcestershire
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APPOINTMENTS

LANGER BUCKLEY

GOLF COURSE DESIGN & DEVELOPMENT

has a requirement for an experienced

HEAD GREENKEEPER

at an existing important golf course in Southern Germany. A three year contract is available for the right applicant. German language helpful but not essential. Applications invited for persons with construction experience to:-

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Milton Keynes.
MK17 9PH

CANTERBURY GOLF CLUB

Applications are invited for the posts of:-

1ST ASSISTANT GREENKEEPER ASSISTANT GREENKEEPER

Applicants must be experienced in all aspects of greenkeeping and the use of modern equipment. Apply in writing stating age, experience and qualifications to:-



The Secretary,
Canterbury Golf Club,
Scotland Hills,
Canterbury,
Kent. CT1 1TW

DUNSTABLE DOWNS GOLF CLUB

require

ASSISTANT GREENKEEPER

Applicants must be experienced in greenkeeping, with knowledge of modern course machinery, its use and maintenance.

Apply in writing to:-

The Secretary,
Dunstable Downs Golf Club,
Whipsnade Road,
Dunstable, Beds. LU6 2NB



WENTWORTH CLUB

vacancy for an

ASSISTANT GREENKEEPER

Applicants will have experience in all aspects of course maintenance and in the use of modern turf care equipment.

The club is able to offer outstanding prospects for the suitable applicants, due to its development plans.

Qualified married persons required.

Remuneration package includes 3 bedroomed house. Salary commensurate with experience but in excess of BIGGA recommended rate.

BIGGA annual membership subscription paid by the club.

Apply in writing with full C.V. and references to:-

K.N.Munt,
Course Manager,
Wentworth Club Ltd.,
Wentworth Drive,
Virginia Water,
Surrey. GU25 4LS



SENNELAGER (BRITISH ARMY) GOLF CLUB

require

ASSISTANT HEAD GREENKEEPER

Applications are invited from fully qualified and experienced persons for this position which offers a unique opportunity to work in a foreign country and yet in a British environment. At present the golf club is being extended to a 27 hole complex. Unfurnished accommodation will be provided and the position is open to a single or married man without children. Salary is to be negotiated. Applicants should be prepared to visit West Germany for interview. Applications must reach the Secretary by 30th April 1988.

Written applications with full C.V. to:-

The Secretary
Sennelager (British Army) Golf Club,
BFPO 16. WEST GERMANY

WHEN IT COMES TO FEEDING TURF DIDIN* MAKES THE DIFFERENCE.

THE SPRING RANGE

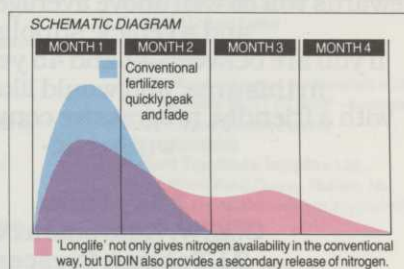
'Longlife' is an established range of fertilizers for all types of professionally managed turf. Whether it is to improve the quality of fine turf such as golf greens and bowling greens or to feed the grass of outfields and other amenity areas, the 'Longlife' range has the answer.

The spring fertilizers shown here will encourage good colour and healthy growth and all contain DIDIN, giving a unique form of

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SALES OPPORTUNITY

Circa. £12.5k to £15k

An excellent opportunity has arisen for a person with a good knowledge of greenkeeping and golf to sell to Golf Course Managers and Head

Greenkeepers in the following areas:-

North, East & West London, Herts, Middlesex, Berks, Oxon, Northants, Beds, Cambs, Norfolk, Suffolk and Essex.

The ideal candidate will either be an experienced greenkeeper looking to embark on a sales career or a person already selling successfully to greenkeepers. For the successful applicant the rewards will be well above average, expenses paid and a vehicle supplied.

If you are between 27 and 45 years old, living in this area, and would like to work with a friendly, progressive company, apply in writing to:-

**Mike Moss,
C.M.W. Equipment Co.,
21 Totman Crescent,
Rayleigh,
Essex.
SS6 7UY**



require an

ASSISTANT GREENKEEPER

Applicants must be experienced in all aspects of greenkeeping including the use and maintenance of greenkeeping machinery. A mature person preferred. Accommodation available. Applicants should apply in writing giving age, experience and qualifications to:-

**The Secretary/Manager,
Lingfield Golf Club,
Racecourse Road,
Lingfield Surrey.
RH7 6PG**

GLOUCESTER HOTEL AND COUNTRY CLUB



require an

ASSISTANT GREENKEEPER

Applicants must be fully experienced in all aspects of Modern Greenkeeping, including being Conversant with: Automatic Watering Systems, Spraying and Maintenance of Modern Golf Course Machinery. No accommodation provided.

Salary negotiable. Apply in writing, enclosing a full C.V. to:-

**The Grounds Manager,
Gloucester Hotel and Country Club,
Robinswood Hill,
Gloucester,
GL4 9EA**

Embassy Hotels

MINEHEAD AND WEST SOMERSET GOLF CLUB

has a vacancy for an

EXPERIENCED GREENKEEPER

The person appointed must have the essential skills and experience to supervise existing greenkeeping staff and be qualified in all greenkeeping duties.

Salary commensurate with experience. Please apply in writing giving full details references and experience to date to:-

**The Secretary,
Minehead and West Somerset Golf Club,
Minehead,
Somerset,
TA24 5SJ**

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BRITISH ASSOCIATION OF GOLF COURSE ARCHITECTS

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

Donald Steel,
The Forum, Stirling Road, Chichester,
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N. Ireland, BT20 4RW Tel: 0247 465953

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OX7 1TQ Tel: 0993 811976

Alistair Rae,
26 Tannoch Road, Uplawmoor,
Glasgow, G78 4AD Tel: 050 585 371

Siefen Quenouille, c/o Tom McAuley,
38 Moira Drive, Bangor, Co. Down, N. Ireland
BT20 4RW Tel: 0247 465953

Cameron Sinclair,
Marsh Watson PTY. Ltd, P.O. Box 136,
Nerang, Q.4211, Australia. Tel: 075 58 4733

Overseas full
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28 Ailesbury Drive, Dublin 4, Eire. Tel: Dublin
691592

Joan Dudok Van Heel, Zeukenlaan 4, B-
1640, St. Genesius-Rode, Nr. Brussels,
Belgium Tel: 02-3583387

Pier Mancinelli, 21 Via Achille Papa
00195, Rome, Italy. Tel: 06-36036-35

Jan Sederholm, S 252 34 Helsingborg,
K. Kristoffersg 3A, Sweden. Tel: 042-371-84

Overseas (provisional)
Kurt Robknecht, Dennenmoos 5a, 8990
Lindau-Bad, Schachen, Germany
Tel: 08382-230-05

R. Berthet, 57-59 Rue Lhomond, 75005,
Paris, France. Tel: (1) 336-77-50

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BRITISH ASSOCIATION OF GOLF COURSE CONSTRUCTORS

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Golf Landscapes Irrigation, Golf Landscapes Ltd.,
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CM15 9SR Tel: (0277) 73720

Irrigation and Leisure Services,
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PE8 6QB Tel: (0780) 782375

Irrigation and Slurry Services,
Louvain, Quavey Road, Redlynch, Wiltshire,
SP5 2HH Tel: (0725) 20377

North Staffs Irrigation Co.,
Ivy Mill, Longton Road, Stone,
Staffordshire. Tel: (0785) 812706

Par 4 Irrigation,
Ash Grove Ind. Est., Ripon, N. Yorkshire.
Tel: (0765) 2175

Rain Bird Europe, SARL, BP 72-13762,
Les Milles, France Tel: (010 33 42) 244461

Sports Ground Irrigation Co.,
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Sports Turf Services,
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EH28 8LE Tel: (031333) 2345

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BH24 3SD Tel: (04254) 6261/2

*Also Toro International Sales Co. - address
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Turf Irrigation Services Ltd.,
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Tel: (04775) 255/6

Watermation Ltd., Monument Way East,
Woking, Surrey. GU21 5LY Tel: (04862)
70303/21009

Watermation (Scotland) Ltd.,
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FK7 6BP. Tel: (0786) 70252

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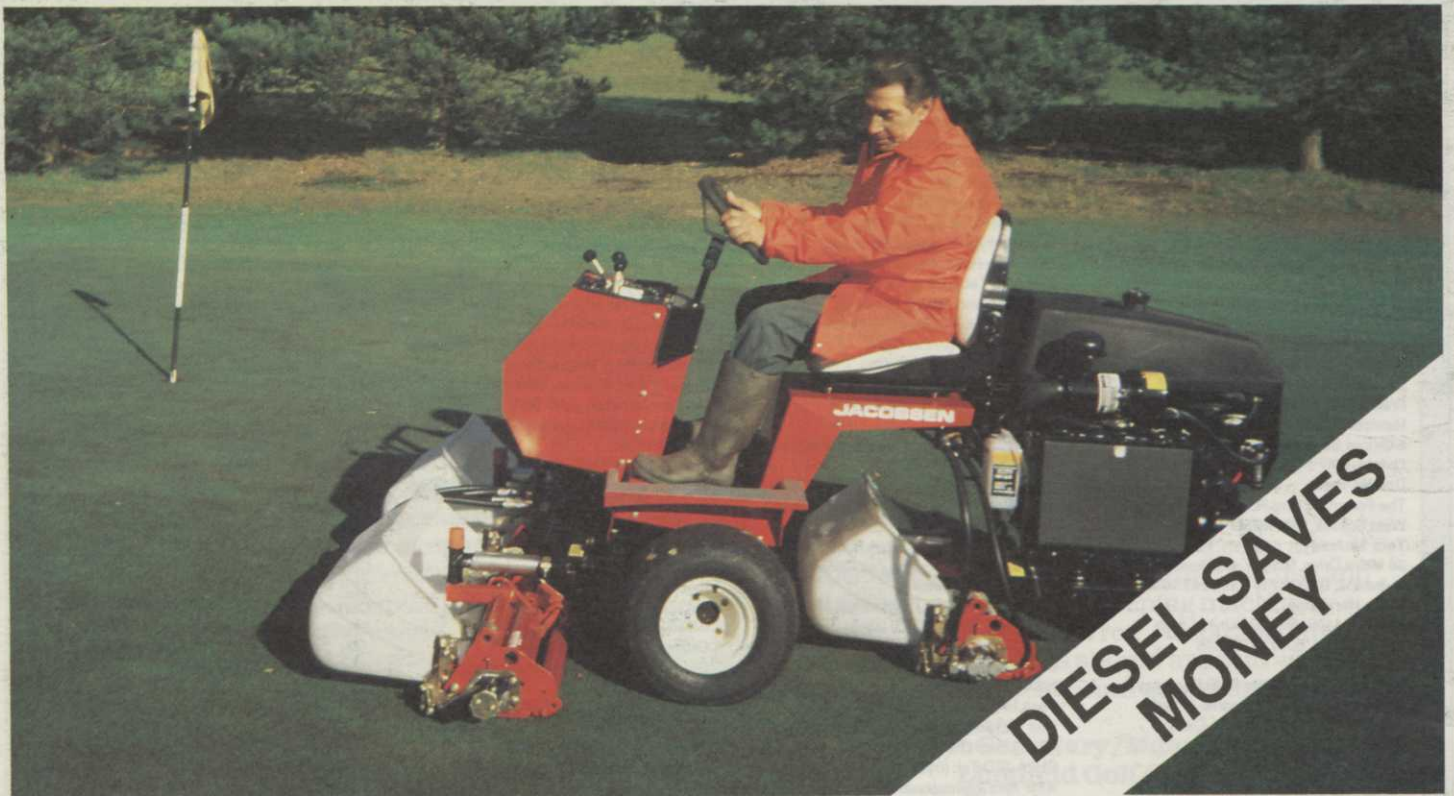
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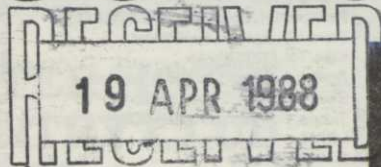
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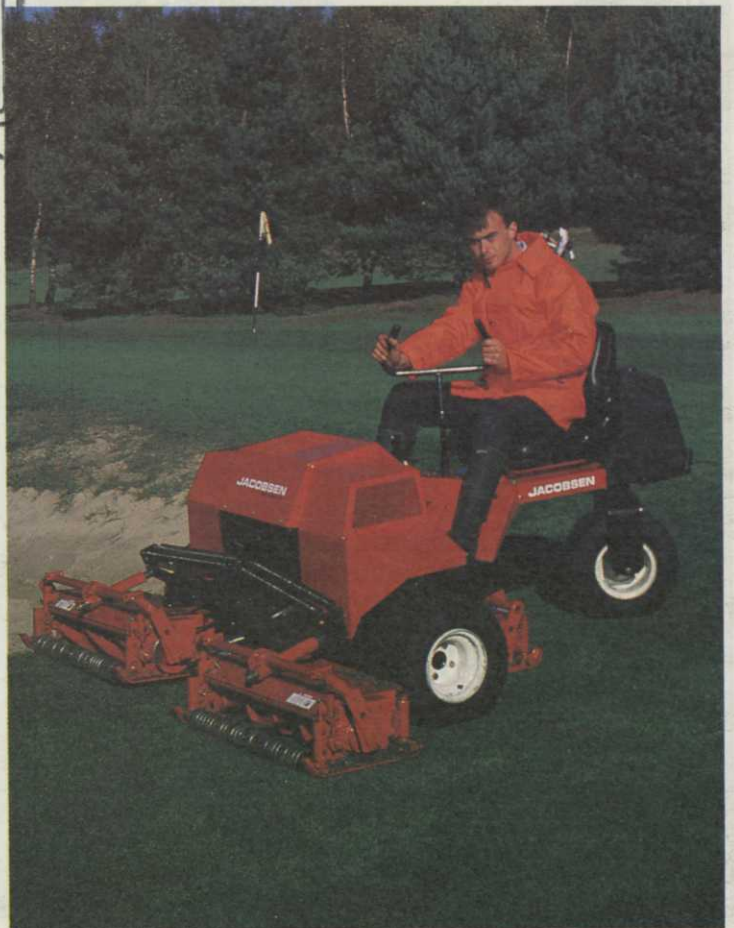
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