

AUGUST 1992

# GREENKEEPER

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# AMAZONE GROUNDKEEPER



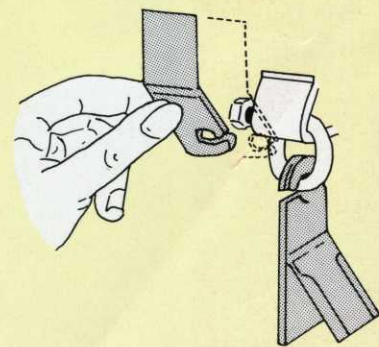
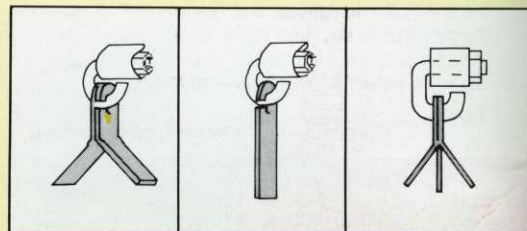
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*Not to be completed by 1991 members*

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**PLEASE COMPLETE FULLY IN BLOCK CAPITAL LETTERS**

Full Name .....

Home Address .....

County .....

Postcode ..... Telephone .....

Date of Birth (if applying for Greenkeeper Membership) .....

Name of Employer/Company .....

Address .....

County .....

Postcode ..... Telephone .....

Position held .....

I wish to apply for: Greenkeeper Membership

Associate/Company Membership  Tick as applicable

I wish to be affiliated to the ..... Region, ..... Section

(Greenkeeper Membership only: see overleaf). I hereby apply for membership of the British & International Golf Greenkeepers Association and agree to abide by the constitution and rules of the Association. I enclose a cheque/postal order in the sum of £..... (details overleaf) made payable to BIGGA. A receipt will not be issued unless specifically requested. GI.8.92

Signed ..... Date .....

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*\*Until the end of 1992*

## Greenkeeper Membership Details 1992

*See application form overleaf*

- Region: **Scottish** – Sections: Ayrshire: Central: East: North: West
- Region: **Northern England** – Sections: North East: North West: Northern:  
Cleveland: Sheffield: North Wales
- Region: **Midland** – Sections: East Midland: Midland: East of England:  
Mid Anglia: Berks: Bucks and Oxon
- Region: **South-East** – Sections: East Anglia: Surrey: Kent: Sussex: London
- Region: **South-West** – Sections: South West: South Coast: Devon and  
Cornwall: South Wales

## New Member Subscriptions

Course Manager .....	£30.00	(was £50)
Deputy Course Manager/Deputy Head Greenkeeper ...	£25.00	(was £45)
First Assistant/Assistant Greenkeeper .....	£22.00	(was £39)
20 years of Age or under .....	£15.00	(was £26)
International.....	£30.00	(was £48)

(NB: Overseas members are requested to note that subscriptions should be made in

Pounds Sterling by way of a Bank draft or cheque drawn on a London bank).

## Associate/Company Membership Details 1992

Associate/Company (including subscription to Greenkeeper International  
magazine until end of 1992) – £25.00 (was £45)

Associate/Company (without magazine) – £15.00 (was £20)

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Complete card overleaf on behalf of company, sign and date.  
Please attach a list of those staff members – names and mailing  
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Official publication of the British & International Golf Greenkeepers Association  
**AUGUST 1992**



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# GREENKEEPER

*International*

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The BIGGA Turf Management Exhibition and Seminar Programme is now recognised as the industry's most significant indoor event. Contact Debbie Savage on 03473 581 for a BTME 1993 Information Pack and find out how your company can take part.

### Greenkeeper Education and Development Fund

Launched by Viscount Whitelaw at BTME 1992, the Fund provides the key to the future for greenkeeper, golf club and game. Individuals and companies can join the Golden Key Circle and Silver Key Circle. For details, contact BIGGA on 03473 581.

**GOLDEN KEY CIRCLE COMPANY MEMBERS:** Hardi Ltd • ICI Professional Products • Iseki UK Ltd • Jacobsens • Kubota UK Ltd • Lely UK Ltd • Lindum Seeded Turf • Ransomes • Rufford Top Dress Supplies Ltd • Toro Irrigation.



BIGGA GOLDEN KEY and SILVER KEY CIRCLES

# Education and Development Fund tops £50,000 mark

The Greenkeeper Education and Development Fund has reached its first landmark and topped £50,000.

Ransomes and Netlon are the latest companies to support the fund.

At The Open Championship, Ransomes' UK Sales Manager Richard Bishop presented BIGGA Chairman Roy Kates with a cheque for his company's membership to the Gold Key Circle.

## Associated

Netlon Advanced Turf Systems joined the Silver Key Circle, wishing to be closely associated with the educational courses and programmes now being developed for the greenkeeping profession.

"Netlon Limited believe that the Education and Development Fund for Greenkeepers is a very important way forward within the golf industry," said Netlon's UK Sales Manager Gordon Rolfe. "We are confident the very high standards



already achieved can be maintained and, in time, improved by this programme."

In welcoming the contributions of both Ransomes and Netlon, Neil Thomas, Executive Director, BIGGA commented, "A further two companies have now joined the Key Circles and the support to date for the new fund from within the industry has been excellent. We hope that it will be ongoing, thereby developing a resource which will contribute greatly to the development of greenkeeper educational programmes in the years ahead."

A donation of £250 by the Mid Anglia section committee has been welcomed as indicative of an increasing trend from

regions, sections and individuals to support the fund. Neil Thomas advises that a plaque will be presented to the section to mark this contribution. "I consider it particularly important that members support their own fund," he said. "In the years ahead I am sure that they will derive tremendous satisfaction from their own contributions to a fund designed to bring them ongoing benefits."

"I am delighted to announce that the fund has now passed the £50,000 mark and this provides a strong base for future development."



Above: **BIGGA Chairman Roy Kates receives a cheque from Ransomes' UK Sales Manager Richard Bishop.**



Right: **Gordon Rolfe**

## Large and small companies line up for BTME '93



A preliminary list of exhibitors has been drawn up for the 1993 BIGGA Turf Management Exhibition.

And the message from Exhibitions Officer Debbie Savage is: "If your company's name is not on the list, there's still time to take part - but book your stand space as soon as possible to avoid disappointment."

Companies large and small have confirmed their intention to take part in the 1993 BTME in Harrogate - considered to be the premier event for the fine turf industry.

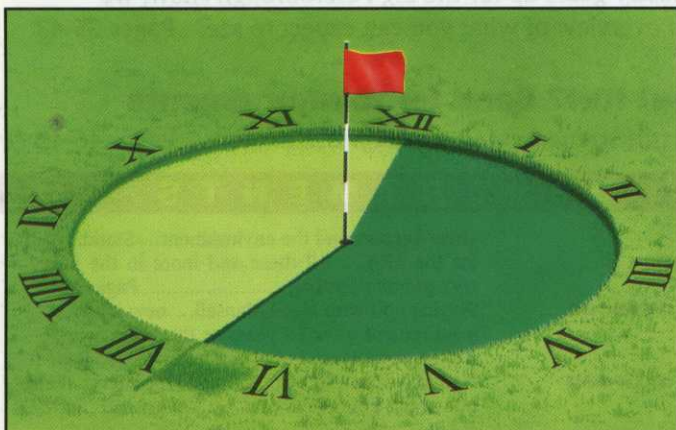
This year's exhibition, opened by BIGGA President Viscount Whitelaw, was reckoned to be the best yet.

Plans are well advanced for the next event, however, with the number of bookings up on this time last year.

● For a comprehensive information pack containing full details about the 1993 BTME, telephone Debbie on 03473 581 or by fax on 03473 8864.

### BTME 1993: EXHIBITORS TO DATE

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■ Roger West, Agriland's technical director for the past five years, was appointed MD of the company in June. A bio-chemical engineer, he initiated the development of Agrimaster and Agricrop growth stimulants and later went on to formulate Ferrogreen liquid iron and a multi-purpose wetter. More recently he has developed the "Classic" range of liquid fertilizers. A spokesman for the Clearfield Group, Agriland's parent company, told Greenkeeper International that the appointment reflected the company's emphasis on research and development and product-led marketing.



■ Rufford Top Dress have appointed two regional sales managers. They are Michael Vandembosh, (left) who will cover Southern England to the boundaries of Birmingham, and John Taylor, (below left) who will cover Birmingham, Northern England and Scotland. Both Michael and John have extensive backgrounds in turf culture and have received comprehensive soils training to add to their already considerable knowledge.



Rufford's managing director, Peter Jefford explained, 'these appointments are for the sole purpose of supporting, advising and monitoring our existing distributors throughout the country'.

■ Claimants for longevity in greenkeeping may have to look to their laurels following the news that Tom Adams, Ludlow Golf Club, has retired after no less than 55 years of tending the same golf course, a record that may take some beating. I'm sure all BIGGA members will join with Greenkeeper International in sending Tom fraternal greetings and good wishes for a long and happy retirement.

■ The UK Engine Repair Championships will be staged for a third time at IoG, a national competition sponsored by Tecumseh, Briggs & Stratton and Kohler Engines, together with GMS Amenity Power magazine. Co-sponsors are Castrol, R+R Workbenches, Kamasa Tools and Champion Sparkplugs.

Open to service engineers, the championships highlight the importance of workshop personnel and their skill when working on small engines, plus all the kudos that goes with winning.

At the show on September 9th, semi-finalists will diagnose engine faults with the finalists working on engines. Cash prizes totalling £950 are on offer.



■ SISIS Equipment (Macclesfield) Ltd were delighted with the response to their Diamond Jubilee cartoon caption competition, with entries received from the UK and as far afield as France, Belgium, Ireland, Dubai and the USA.

After much deliberation the winner was declared to be Mr C Parry, head greenkeeper of Woolton Golf Club, near Liverpool. He will receive a piece of diamond jewellery, with three runners-up each receiving engraved glass tankards. The winning caption reads: 'Morning Mr Secretary, I see you've caught another lady member out on men's competition day again'.

■ Two champions, each masters of their craft, clashed recently in a friendly battle with a world class flavour. Nigel Mansell, Britain's flying Manxman and likely Grand Prix World Champion, along with friend of the Kerry's, Simon Williams (related to Canon-Williams team impresario Frank Williams I wonder?), joined up with Hilton Gold Medal winner and head greenkeeper Roger Kerry, along with Roger's twin brother John, on the links of Royal St David's at Harlech for a four-ball no holds barred match.



Standing, Royal St David's captain, Barry Steward. Sitting, from left: John Kerry, Simon Williams, Nigel Mansell, Roger Kerry

Welshman Roger, who many will remember as the wizard who masterminded the immaculate preparation of Royal St David's for our National Tournament in 1991, told of the thrill of playing against Nigel, and how he and John negotiated stakes of £2 a side and £2 for the game (this with a multi-millionaire!) in an epic Wales v England match. Recovering from an understandably nervous start and a four down position, the Kerry's pulled back to all square at nine and were just one down at sixteen. "Then", explained Roger, "Nigel threw a cracking birdie at us and the match was over - the best £4 we've ever lost! Nigel is the most competitive person I've ever played against and he positively thrives on hard battles". We'll bet Ayrton Senna knows a little about that killer attitude!



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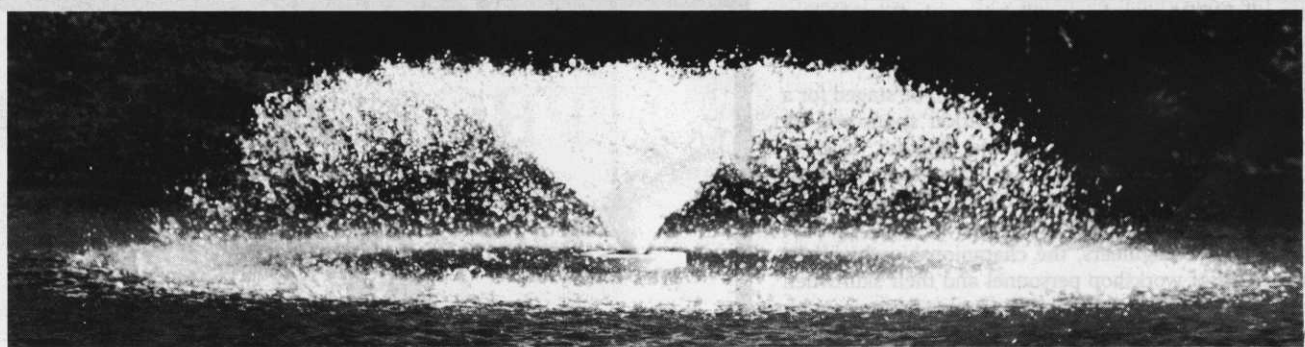
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AD  
REF  
208



# New manual contains all the facts

Good things, we are taught from an early age, are worth waiting for. Thus it is with genuine pride and pleasure that at last, at long last, the announcement can be made: *The Greenkeepers Training Committee Training Manual is ready!*

This long overdue publication is the result of a great deal of mid-night oil burning, coupled with expert knowledge and opinion, by representatives from the English Golf Union; National Association of Golf Club Secretaries; The Royal & Ancient; The PGA European Tour; Scottish Golf Union; Welsh Golfing Union; Golfing Union of Ireland; Sports Turf Research Institute and, of course, BIGGA. It will be available from GTC headquarters, c/o BIGGA, Aldwark Manor, from September 1st and costs £14.

What exactly is the GTC Training Manual? It is a manual which has been developed in response to requests to update the Trainees Log Book (The Pink Book) which hitherto was issued by the GTC.

Since the Log Book was first introduced there have been numerous developments in education, training and indeed in the game of golf itself. The time was overdue to update and further develop the Log Book and, in effect, it has been reconstructed and added to in such a way that it now bears little resemblance to the old Pink Book.

In the Training Manual the reader will find all that is necessary to achieve competence in every aspect of the greenkeeping craft. All the essential tasks and knowledge required by a golf greenkeeper are listed in such a detailed way that guidance is provided to both trainee and trainer on how every task should be tackled. Reading it will not make you an instant expert, but it will identify every task necessary and create targets to achieve.

Of even greater importance, the manual provides a record of training and an assessment or achievement record. The manual ties together the educational elements with practical (assessment) elements so that greater understanding and co-operation between golf Club and approved colleges is established. The importance of this is apparent in that development of NVQs (National Vocational Qualifications) and SVQs (Scottish Vocational Qualifications) are considered throughout the development of the manual and NVQs and SVQs have been incorporated fully into the text, enabling greenkeepers to obtain a nationally recognised qualification.

## Courses tailored to suit manual

Approved colleges have embraced the essentials contained within the manual and are tailoring their courses to suit the manual.

How, one may ask, is the student assessed? Many assessments are work-based although in some instances these will be 'simulated' at approved colleges which provided formal instruction. Assessors will be those who are designated and trained under arrangements approved by the industry. Of great importance for our profession, course managers and head greenkeepers can themselves undergo further training to become assessors, an important move.

Who then should obtain copies of the Training Manual? Obviously, all students will find the contents invaluable, as will green chairmen, course convenors and secretaries, since it will greatly increase their awareness of the many complexities in managing a golf course which, as we all know, is far more than just cutting grass. Equally important, course managers and head greenkeepers will find much of interest, both in their understanding of their work and in guiding future generations toward greater skills and extended knowledge. Certainly the GTC anticipates a huge interest and will be surprised if the publication and use of the Training Manual does not produce a new crop of both assessors and skilled greenkeepers.

The Training Manual is produced in a way that enables updated material, naturally evolving in the light of increased knowledge, to be added. Plans are also afoot for a further detailed sections to be published, embracing supervisory and management skills.

Application forms are available from BIGGA HQ on the new GTC hotline, which is 03473 640. If you have any queries, David Golding will be happy to answer them.

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This comprehensive Manual is endorsed by: ♦ British and International Golf Greenkeepers Association ♦ English Golf Union ♦ Golfing Union of Ireland ♦ Scottish Golf Union ♦ Welsh Golfing Union ♦ Irish Golf Greenkeepers Association ♦ National Association of Golf Club Secretaries ♦ PGA European Tour ♦ The Royal and Ancient Golf Club ♦ Sports Turf Research Institute.

For more information on Greenkeeper  
Training, call David Golding on 03473 640

Contact the Greenkeepers Training  
Committee, c/o BIGGA, Aldwark Manor,  
Aldwark, Alne, York YO6 2NF for an  
Application Form, or telephone 03473 640

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We have this year chosen two outstanding luxury hotels:

◆ **The Anaheim Hilton and Towers**, a superior first class hotel, is situated 50 feet from the Anaheim Convention Center and two blocks from Disneyland. Guest rooms have climate control, colour cable TV and radio. There is an outdoor heated pool and four jacuzzis, full health club with sauna, massage, tanning beds, steam room, exercise equipment and aerobics, games room, and beauty salon. There's also a vast range of entertainment and dining facilities – sample Italian, Japanese and of course Californian cuisine.

◆ **The Hyatt Islandia**, another superior first class hotel in San Diego, located on Mission Bay. Guest rooms are air-conditioned with private bath, remote-control colour cable TV, radio and phone. The Islandia Bar and Grill offers fine Mediterranean cuisine with bay views at lunch, dinner and Sunday brunch. There is a heated outdoor pool, whirlpool, tennis courts, sail boat rentals, windsurfing, water-skiing, snorkeling, scuba diving and parasailing and whale watching (in season!).

Details of the GCSAA programme will be available from headquarters at a later date.

◆ **Package 1**

25th January to 5th February 1993  
London Gatwick/Los Angeles on Virgin Atlantic – 25th January  
Transfer to Anaheim Hilton  
6 nights Anaheim Hilton – 25th January-31st January  
Transfer to San Diego – 31st January  
4 nights Hyatt Islandia – 31st January-4th February  
Transfer to Los Angeles Airport  
Los Angeles/Gatwick on Virgin Atlantic – 4th February (to arrive in UK on 5th)  
Cost: Twin Room £842 per person  
Cost: Single Room £1,266 per person

◆ **Package 2**

25th January to 1st February 1993  
London Gatwick/Los Angeles on Virgin Atlantic – 25th January  
Transfer to Anaheim Hilton  
7 nights Anaheim Hilton – 25th January-1st February  
Transfer to Airport  
Los Angeles/Gatwick on Virgin Atlantic – 1st February (to arrive in UK on 2nd)  
Cost: Twin Room £689 per person  
Cost: Single Room £1,004 per person.  
Insurance: Anaheim/San Diego £42.95; Anaheim only £34.80.

## BOOKING FORM

GCSAA Conference and Show, Anaheim  
Please return to BIGGA, Aldwark Manor, Aldwark, Ane, York YO6 2NF

Full name: .....

Address: .....

Telephone: .....

Name(s) of additional passengers: .....

**PACKAGE 1: ANAHEIM/SAN DIEGO**

Twin Room: £842.00. Number of persons: .....

Single Room: £1266.00. Number of persons: .....

**PACKAGE 2: ANAHEIM**

Twin Room: £689.00. Number of persons: .....

Single Room: £1004.00. Number of persons: .....

Insurance: Anaheim/San Diego £42.95 • Anaheim only £34.80 Gl.8.92

I shall/shall not\* require Insurance (\*delete as applicable)

**CANCELLATION PROCEDURE**

If cancelled more than 42 days before departure date: cancellation charge will be the deposit; 42-29 days before departure: 20% of total holiday cost; 28-15 days before departure: 30% of total holiday cost; 14-4 days before departure: 55% of total holiday cost; 3-1 days before departure: 70% of total holiday cost. No refund for non-appearance. Under certain circumstances, cancellation charges are covered by the comprehensive travel insurance policy. As cover is provided by the insurance company from the date of purchase of the policy, insurance premiums are not refundable and are excluded from the total holiday price for the purpose of calculating cancellation charges.

I enclose a deposit of £100.00 per person plus insurance payment (if required).

Total enclosed: .....

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National Certificate in Greenkeeping and Sportsground Management (1 year)

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Nr Winchester, Hants SO21 2NF Tel: 0962 72441.

Sparsholt is a Greenkeeper Training Committee Approved College

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**Cheshire College of Agriculture, Reaseheath,  
Nantwich, Cheshire. Telephone: 0270 625131.**

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For further information contact Liz James on 0995 40611.



The Principal, Lancashire College of Agriculture and Horticulture, Myerscough Hall, Bilsborrow, Preston, PR3 0RY. Telephone: 0995 40611. Fax: 0995 40842.

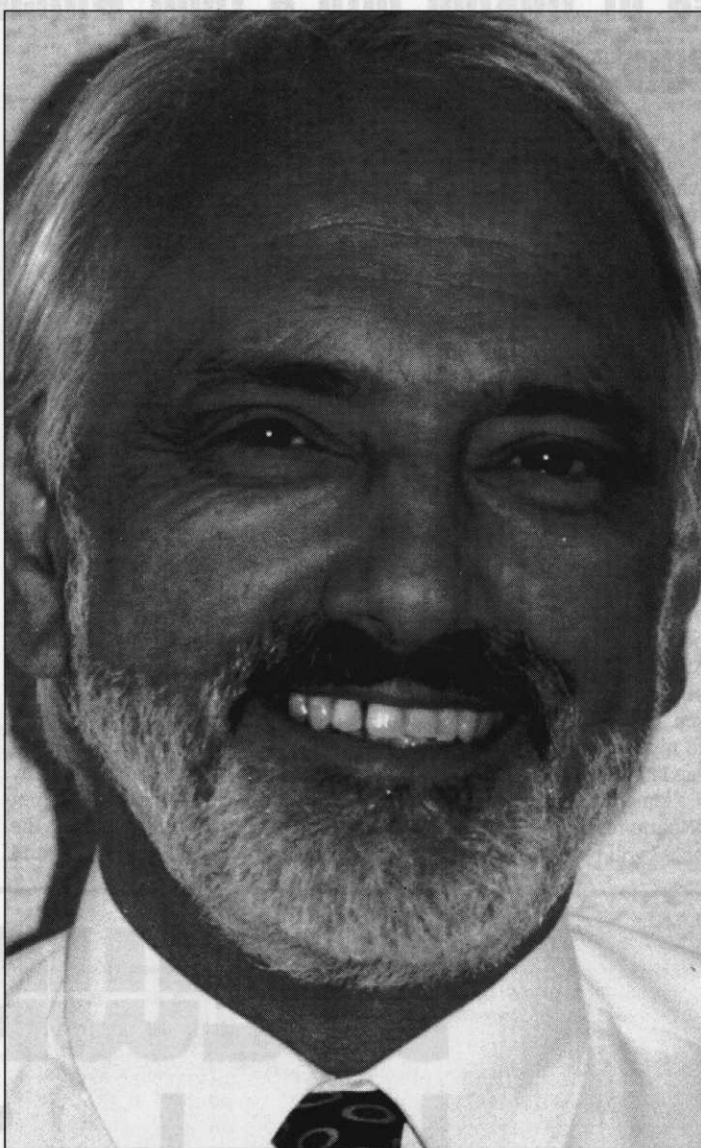
René Orban, Jacobsen UK Ltd

If you want to talk Marketing with a capital 'M', and by definition we are talking real marketing and not just the veneer that passes for marketing in many organisations – the word in the trade is that René Orban is your man.

"Marketing these days is so often seen as nothing more than a bit of sales promotion and a one-way conversation with an advertising agent", René told me, "though I regard it in a much more scientific light, of essentially being the task of market research linked inextricably to the sales side, with product development based on giving the client – the end user – what he really wants and not what so often happens – giving the client what the manufacturer wants to sell".

There is a base of solid experience to back up these comments, as I quickly learned when listening to this Belgian born son of a Canadian father and Russian mother, a world traveller who speaks fluent French, passable German and, of course, his English mother tongue – all this without a trace of any Midlands accent that might have been acquired during formative years spent in Coventry. Yes, it can safely be written that René Orban is a citizen of the world, a marketer whose career has been carved in tough international competition.

For the purpose of this pen portrait, we may safely skip over early post-school years and move to the first of René's sorties into the field of machinery. This began at Massey-Ferguson, where skills gleaned during training to become a Member of the Institute of Export (MIX) were quickly recognised and put to sterling use in his being hired as Massey's commercial manager, running the administrative side of the sales



programme at M-F's Coventry plant and later in their French factory, together with a programme of world-wide sourcing of materials and ideas.

In ten years, as the reader can imagine, a great deal of expertise was to come his way simply by being in a highly competitive market and in doing what he did so

well, but time does not stand still and at the age of 29 he left Massey-Ferguson for a three year marketing stint with Hymac, the building construction machinery company, promoting Hymac's sales and marketing programme in Scandinavia.

The lure of marketing agricultural machinery was still strong in

his bones however, and following the Scandinavian experience he returned to Massey-Ferguson, this time to follow the marketing path in M-F's European base in Switzerland, looking after Asia, Africa and the whole of the Far East and essentially seeking to improve the company's business developments and sales potential in those far-off lands. It was a case of increasing M-F's market share and it was successful.

Yet another foreign land was to be home when René subsequently moved to Paris in a different job



with a different company, this time as sales director Europe for Kubota. Here the task was to introduce a mini-excavator which was new to Europe and to develop Kubota's OEM (Original Equipment Manufacture) programme – again, success was the outcome.

Moving to more recent times, in November '89 René was attracted to a position with the multinational company Jacobsen Textron, joining their smaller offshoot Jacobsen UK as managing director. His objectives were simple: Jacobsen had come to Britain in 1986 to sell their products through a subsidiary company and though sales had come through progressively and altogether satisfactorily, Jacobsen had not established any clear direction with regard to sales methods and policies – the way it had sold in the UK was through both agents

**GIVING THE CLIENT  
WHAT HE WANTS**

**'We always wanted to be even more closely associated with greenkeepers – after all our main market is in golf – and the idea of linking into a fund which will benefit greenkeeper education is highly laudable.'**

and direct selling – and the American parent company needed to be assured that there was a future for their continuing marketing operations in the UK.

René was the first appointed MD and he was quick to point to the excellent job done prior to his appointment. "It was just that from a management point of view the business wasn't being administered as a company", he explained. "When I came on board we quickly created a policy to only sell in the UK through a dealer network, which we have maintained to this day save for a brief period in Scotland. Fortunately, this is now 100% again with the appointment of Henry Sheach Grass Machinery Limited for Jacobsen Scotland. We have some excellent dealers, we've introduced a lot of product and sales training, we've formalised the way we do business and we've brought in a number of Jacobsen

products from America, products which we know from our market research to be right for the UK market. Above all we have given Jacobsen a credibility and professionalism that hitherto may have been missing here. We most certainly have that now, both in Jacobsen UK and in our superb dealer network".

"What do you do in your spare time", I asked. There followed a hollow laugh: "What spare time? I do a lot of reading – mostly, it seems, on airplanes – at the end of last year I set up the Australian Jacobsen company and I've just begun the task of directing European operations, working with the Swiss Orag company throughout all of mainland Europe for Jacobsen Textron. All this is in addition to my UK programme, so you can see I'm a busy man".

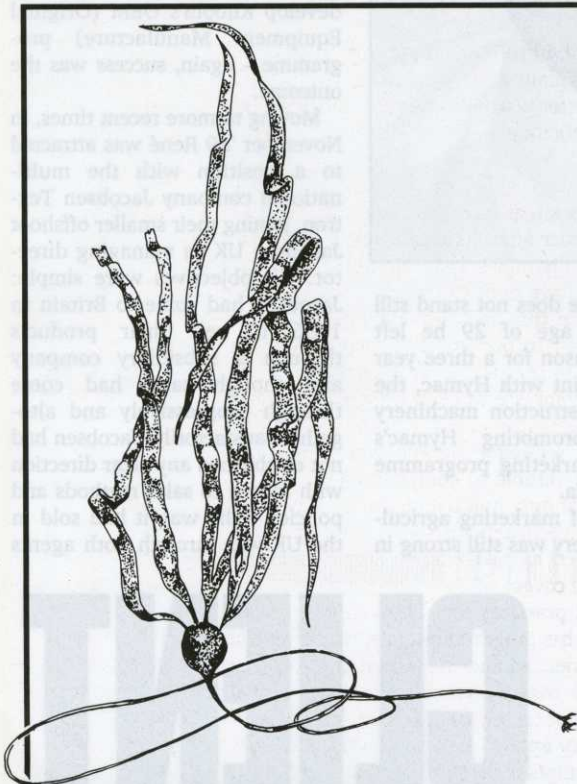
"Almost a workoholic?", I asked. "Not quite, but my role by the end of '93 will be to have co-ordinated

all the European sales and marketing activities and whereas Jacobsen are world market leaders in fine turf there are some enormous sales opportunities in the amenity market. In truth, my work with Jacobsen has been so interesting and so committed that I have almost become a workoholic, but I'm not obsessive or single-minded, so I discount the workoholic tag. In any business, over commitment doesn't allow for the opening of blinkers, for lateral thinking in a personal or business sense – in personal life one must enjoy oneself and hold a broad view and I think that's the same in business – apart from anything else, I'm really excited by the European connection, because there's obviously some vast changes happening both politically and economically which effect business – I'm not sure everyone fully realises the implications of sovereignty and

nationalism, but the narrowness witnessed in some quarters has got to be expanded and that will take new techniques. My personal expression will be through Jacobsen, for that is where I will explore and expand my mind and apply myself to creating new opportunities".

As a finale, René spoke generously in favour of chairman Roy Kates, who was instrumental in bringing Jacobsen UK and BIGGA together through BIGGA's Education and Development Fund and membership of the Golden Key Circle. "We always wanted to be even more closely associated with greenkeepers – after all our main market is in golf – and the idea of linking into a fund which will benefit greenkeeper education is highly laudable. Yes, we're very happy to play our part in the generation and growth of future experts".

**DAVID WHITE**



# STEWARTS

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# Conserving

# WATER

As we face summer after another dry winter with decreasing water reserves, some restrictions against water use must come into effect soon. Where water is supplied from the public mains there could be significant reductions in water quotas and/or restricted hours for watering. \*

To date there has been little effort in conserving water during the warmer summer months, with the generally accepted practice throughout the summer in the absence of rain being to water daily. Many accept this as the best method of keeping the optimum water levels and maintaining good vigorous turfgrass cover; and indeed some authorities even recommend this approach.

If the condition of the plant is examined and the water content of the rootzone inspected then there may be no need to apply water quite so frequently. The prevailing weather, the extent of the root growth and the vigor of the grass sward will all determine the amount of water that is used by the plant. Furthermore, by applying a light watering there is no possibility of any deep penetration of the water into the rootzone and the upper 25-50mm of soil is maintained at a level above or close to field capacity, often at the expense of a good supply of air. Grass roots are readily supplied with water and succulent growth results. There becomes no need for roots to move in search of water and deeper root growth is not encouraged.

In considering the actual amounts of water involved, a sprinkler system consisting of four pop-up sprinklers around a green generally applies water at the rate of approximately 25-40mm per hour if part circle sprinklers are used. The duration of watering each night varies from 4-10 minutes. In six minutes 4.2mm could be applied on a daily basis and accordingly 29.4 is applied in a week.

## Understanding the extent of water loss

If evaporation is measured from an open water surface in the South East during the hottest months of June through August, it can be seen that generally 26-32mm of water is lost in a week. Considering losses from the turfgrass plant – firstly, water lost from the plant can only pass out of the plant stomata. Secondly, water loss from the soil will not be consistent but will reduce steadily as the top layers dry out and water has to move up to the surface by capillary action. It therefore becomes fairly logical to accept that the total amount of water lost by evaporation and transpiration (evapotranspiration) is a good bit less than the amount lost from an open water surface over the same period.

In the warm day that follows the daily irrigation, evaporation from the soil surface is at maximum rate – being adequately supplied with water – until the soil surface begins to dry out. Whatever application is made the previous night a good majority of this amount is soon lost by evaporation and the ready transpiration of a well watered grass sward.

No actual water losses have been measured but formulae have been derived to estimate this total loss and depending on weather, soil and plant conditions as well as the height of cut, the amount can be in the region of 60-80% of the water loss from an open water surface.

With the weekly amount of water applied by way of daily watering, the loss each day must initially be at maximum, reducing during the day. Notwithstanding this fact, the

weekly amount applied (29.4mm) is far in excess of the amount needed (20.3mm = 70% of 29mm average).

by GORDON  
JAABACK

## Conserving water in the rootzone

If watering is not applied daily during the hottest months, but every 3-7 days, and sufficient water is given to meet the rootzone only, it can be readily seen that the total of the daily amounts applied is not necessary; and if applied will be in excess of the water holding capacity of the rootzone. (It was interesting to read in the April issue of Les Adams's account on water requirements in South Africa). In programming less frequent watering it must naturally be borne in mind that the grass cover is never put under any undue stress and this can be readily gauged by the firmness in the leaves – in other words the resistance of the grass cover to spring back after walking over it.

Not only does the soil dry out a little in the surface layers but roots are encouraged to go deeper into the rootzone for moisture. Annual meadow grass, although having the potential for deeper root development, will confine its root growth to the surface layers when moisture is readily made available. By drying out the surface, meadow grass growth can be discouraged.

The overall benefit of infrequent watering is a better water use rate. The grass plant is less succulent, less water is utilized and there is a better possibility of sustaining an adequate air supply in the rootzone.

## Practical implications

Many will scoff at this suggestion. There is the inconvenience in the case of earlier automatic controllers. With the rate of application generally higher than the infiltration rate of the soil, recycling will have to be practised.

It is important to note that it is not being stated that watering is necessarily left to one application per week. In view of the time needed to repeat the cycle once or twice, it may not be possible to complete the watering in one night. Much will depend on the permissible flow rate, the type of equipment installed and reducing the application rate, but obviously it would be preferable to complete all the greens in one night than to water only half the greens and tees in a night. To the observant greenkeeper it soon comes apparent what interval is best suited to his rootzone mixture and the condition of the turfgrass cover.

If sound management practices are followed, the greenkeeper will be assessing his programme daily, based on the weather conditions experienced and the rain, if any, that has fallen. It will be found that by establishing an interval between irrigations and securing deeper penetration into the rootzone, the quantity applied will be 20-40% less than the cumulative amount applied on a daily basis – and most important of all the turfgrass plant will become more drought hardy.

\* *Written in April, this prediction has proved prophetic.*

Gordon Jaaback was born and graduated in South Africa. He spent five years in Canada and New Zealand before returning home to operate his own reclamation and construction company for 18 years. Settling in Britain in 1986, he consults in agronomy and soil science and is a member of the American Society of Agronomy, The International Turfgrass Society and the British Institute of Professional Soil Scientists.



Letters to the editor are always welcome. They should be signed and carry the writer's address and telephone number. The editor reserves the right to edit letters for length, clarity, label and good taste. Please send letters to: The Editor, Greenkeeper International, 13 Firlie Close, Seaford, East Sussex BN25 2HL

## Greenkeepers' environmental responsibilities ■ Pricey problems

Working into the night to save greens from the drought brings home to the greenkeeper what the environment really is and what changes to it can mean. Greenkeepers have to cope not only with members of committees, who vary in their ignorance and inclination to interfere, but with even less controllable elements like drought, downpour, frost and the many ills that grass is akin to. Taken together, greenkeepers look after more than a quarter of a million acres of Britain's open space. A big responsibility and one that goes beyond answering just to the chairman of green at your Club. Yes, you manage a sizeable piece of the environment, our environment.

Even so, I am prompted to ask – is golf doing enough to be green, in image and reality? You wouldn't think so through reading the non-golfing press, which often puts up golf as an enemy of conservation. You may say that they have got this all wrong, but per-

ception is reality to a lot of people. Golf has got to fight back and to start projecting what it is doing to conserve and enhance our environment.

Greenkeepers are, aren't they? BIGGA have included conservation in their training syllabus. Seventy four Sites of Special Scientific Interest are maintained on courses in England. English Nature (successor to the Nature Conservancy Council as the government body for nature conservation) has issued to every Club in the country a booklet on conserving golf's natural heritage, along with advice on how to prepare a conservation management plan.

Well, I know this and you know this, but who else is aware of the efforts being made? Probably not even your own members, who complain about that scruffy bit of long grass which, for them, is just a black hole for golf balls but which, come spring, will show a glorious display of flowering meadow plants and you don't

intend to cut the grass until the plants have set seed.

The message needs to be got across at all levels. And greening can extend into all sorts of areas beyond the management of rough and fairway, for example in the use of environment-friendly materials and the economical use of heat and light in the club house. The literature on a green policy for business exists (as does a British Standard – BS7750) and the industry that is golf and the individual businesses that are golf Clubs can implement a green policy. This will not only win golf friends – it will be truly helping the environment.

I suggest that the R&A and the Home Unions put together a guidance note on green management of golf towards meeting BS7750, for implementing as circumstances dictate by golf Clubs. Let's also start at home by having a regular feature in Greenkeeper International on greening golf. A good example is worth publishing – so let's hear stories about what individual greenkeepers are doing for the environment. These can be added to by articles about greening in general. Together we'd be contributing to a sustainable future – for our game and our environment.

Governments and governing bodies can and should lead – a message given at the Earth Summit in Rio. But Rio also gave the message back: that individuals and their actions matter too. Ultimately, they matter most.

**IAN DAIR**

Director of Communications and Corporate Affairs, English Nature

In the June issue, Sam Morrison expresses an understandable and quite justifiable complaint when he wrote about his difficulty in acquiring up-to-date prices to assist him in preparing annual budgets.

As distributors, we offer what we feel are the main reasons for his problem.

1 First and foremost, cost. Any company producing a catalogue detailing products offered would be unwise to quote prices alongside them. In recent years these have altered too frequently for the printed matter to remain accurate and the wasting of existing catalogues and the re-printing of new ones becomes impossibly expensive.

2 A price list accompanying a cat-

alogue is a way of helping this situation, being cheaper to reprint, but again several up-dating reprints in a year would be required for it to be as accurate as possible.

3 The products sold by distributors to the Sports and Amenity trade cover a very considerable range from numerous manufacturers and producers who historically have altered their prices at differing times of the year – well known ones in January, April, June, July, September, October and November. That pattern of change presents a considerable problem to the distributor when an attempt is made to produce an up-to-date price list.

The only way Mr Morrison could obtain the information for producing his budget would be to telephone for prices, but even then, for planning a budget a year ahead, the prices are just not available from the manufacturers until much nearer the time of supply.

As a compromise between offering an expensive catalogue and a separate price list, our small company produces a combined product and price guide. The most recent, although up-to-date in March, alas now requires numerous amendments.

**J D COLLIER**

Collier Turf Care (Distributors) Ltd, Norwich, NR10 4PR

I write to express my concern over what seems to be a lack of interest in BTEC's National Diploma in Golf Course and Sportsground Management.

This three year course is demanding and advanced, yet nevertheless all adverts in Greenkeeper International and other trade magazines for available greenkeeping positions make no reference to it. Instead, they require prospective employees to have gained City & Guilds certification and ignore BTEC.

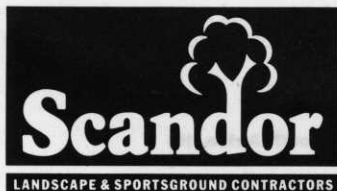
Being a mature student who gave up a good well paid job to gain a position in the golfing industry, I now find myself worrying that the BTEC Diploma is not being recognised and that I have subsequently wasted three years of hard work. Further, in the June issue of Greenkeeper International, the Annual Report makes no mention of BTEC, concentrating instead on the new NVQs and HND/Degree level courses.

Both me and my fellow students

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## ■ Is BTEC Diploma still worthwhile? ■ MGC flies the greenkeeping flag

at Sparsholt College would be interested to learn of any response from BIGGA's education committee, as well as the industry at large.

Three years is a long time to (hopefully) gain a worthwhile qualification. I feel BTEC Golf Course and Sportsground Management is being overlooked.

**D A MATHIE** Farnham, Surrey

■ As someone who has recently successfully completed all stages of the Master Greenkeeper Certificate I feel the need to respond to John Philp's letter (July issue).

I was rather saddened to read, from someone who as yet has not gone through the rigours of the MGC, such a thinly veiled attack on its validity. I was dismayed at an article littered with such derogatory innuendo as 'seemingly worthy qualification', 'concerned about the adequacy of the criteria' and 'a hollow and totally meaningless qualification', all designed to cast doubt on the qualities of current and future MGC holders.

On closer reading it was obvious what the real message implied: Both the time-honoured tradition of relegating the importance of academic qualifications in favour of the skilled application of long-standing maintenance practices, and the equally nauseating contention that true professional greenkeeping can only be practiced on a traditional links type course, anything else being somewhat inferior.

The statement that 'large numbers of greenkeepers can achieve 200 credits' belittles the great effort of those who have done so or are progressing towards it. Ten years of experience will earn 40 credits leaving 160 to be obtained largely by academic achievement. This is something that large numbers will not easily attain and certainly not without the desired aim of greatly increasing the knowledge of future course managers.

The statement that 'no doubt many will possess the capabilities to pass the Stage 3 Examination' was quite frankly an insult, especially to the unfortunate 75% of well prepared candidates who tried unsuccessfully to do so. I am sure they will not thank John for his kind words of comfort.

I for one found it very difficult indeed to acquire the academic qualifications necessary to reach 200 credits, having to gain passes

in the IoG Intermediate Diploma, the EIGGA Diploma in Golf Management, City & Guilds Phase III and IV. I know Laurence Pithie to be similarly qualified and though I do not personally know my two other fellow MGC's I would bet they are equally well certificated.

I think all this disproves the theory that we may have been brain-dead for the last 20 years and have not quite grasped the basic principles expounded by Jim Arthur. To suggest that anyone who has earned the MGC might be simply 'going through the motions of change...' with little real commitment and purpose, probably fuelled by a lack of the required understanding to achieve the correct progression' is tantamount to libel and shows a complete lack of comprehension of what the MGC is all about.

If the academic stages are so relatively easy to attain and the only true professionals are those providing fescue or fescue/bent turf, why is it that as yet there is no MGC holder from a links or a major event course. I would suggest there can be only one of four reasons:

- 1 None have reached 200 credits – I would think this highly unlikely considering the experience and technical capabilities of those in charge of our top courses.
- 2 None have passed the course

assessment – Again highly unlikely on such well maintained and professionally managed courses.

3 None have passed the stage 3 exam – a slightly worrying prospect.

4 None feel they have anything to prove – a far more worrying prospect.

If the managers of Britain's top courses are unwilling to put themselves forward then they do BIGGA and British golf a great disservice. We need the managers of our best courses to be masters of their profession and fly the flag for British greenkeeping.

I think I break no confidences when I say that a major part of the examination this year was based on the presentation of a links course for a major PGA event. Whilst this would have suited John down to the ground, I have experience of neither and had to draw on my academic knowledge and experience gained at conferences and seminars (some of which were given by John Philp) to formulate an acceptable answer.

When John has reached his 200 credits, laid bare his management systems and practices to the eagle eye of one such as Jack McMillan, and reaches the stage 3 examination as undoubtedly he will, then I hope he is not unfortunate enough to be asked to set down a conser-

vation policy for a chalk downland, a structured financial plan for the development on a pay and play in Surrey or a CCT document for a municipal in Barnsley, all of which are possibilities under the present syllabus. He will no doubt realise that there is more to golf course management than the narrow preparation of a major links course.

I have nothing but admiration and respect for the managers of our Open Championship courses. It takes great skill and courage to work under the intense spotlight and to prepare a course for The Open is the greatest honour any course manager can achieve. To achieve the MGC is, in my view, a close second.

When it is John's turn to host the great event, as no doubt it will, I will wish him and his team every success. When the final round is completed and John celebrates the fact that it's over, I hope he does not pick up the morning paper to find that an ill-informed sports writer has 'voiced concern' over the condition of the course.

If John can imagine this scenario he will have some idea how I felt on reading his article – this after 20 years of effort had culminated in my receiving the Master Greenkeeper Certificate.

**KERRAN DALY** Course Manager, Salisbury and South Wilts GC.

## Health and Safety Executive's new ruling

The Health and Safety Executive (HSE) has decided to extend indefinitely the period of validity for current approval certificates for respiratory protective equipment (RPE). The majority of these certificates were due to expire on 1 July.

At present, all RPE which is used in the UK to protect workers from substances hazardous to health must be either type-approved by HSE or meet the requirements of standards approved by HSE. However, this is likely to change in the near future with the introduction by the DTI of new Regulations which would implement in the UK the Personal Protective Equipment (PPE) Directive (89/686/EEC).

The Directive was due to come into force on 1 July this year, which explains the current approval certificates for RPE expiring on that date. However, although the DTI are expected to issue a consultative document soon, their Regulations could not be in force by 1 July. Moreover there are no facilities yet formally available anywhere in the Community

for the manufacturers of RPE, or indeed of any other PPE, to have their products EC type-tested and approved for CE-marking. (The CE mark implies conformance with the Directive's requirements.)

The extension of the validity of current approval certificates will therefore enable manufacturers to continue producing (and employers to purchase) RPE which satisfy the specific approval requirements of health and safety legislation such as the Control of Substances Hazardous to Health Regulations 1988 (COSHH).

RPE already in the supply chain, and in use before the Directive is implemented, can still legally be used after the implementation date as long as it is maintained in good working order and is suitable for its intended use.

Once there is sufficient capacity available to manufacturers to have their equipment CE-marked, HSE intends to cease issuing certificates of approval. However, HSE will still continue to ensure that RPE (and other PPE) give the required level of protec-

tion by enforcing the Regulations which will implement the Product Directive, and the relevant Regulations (such as COSHH) requiring that RPE be properly selected for both the work and the person.

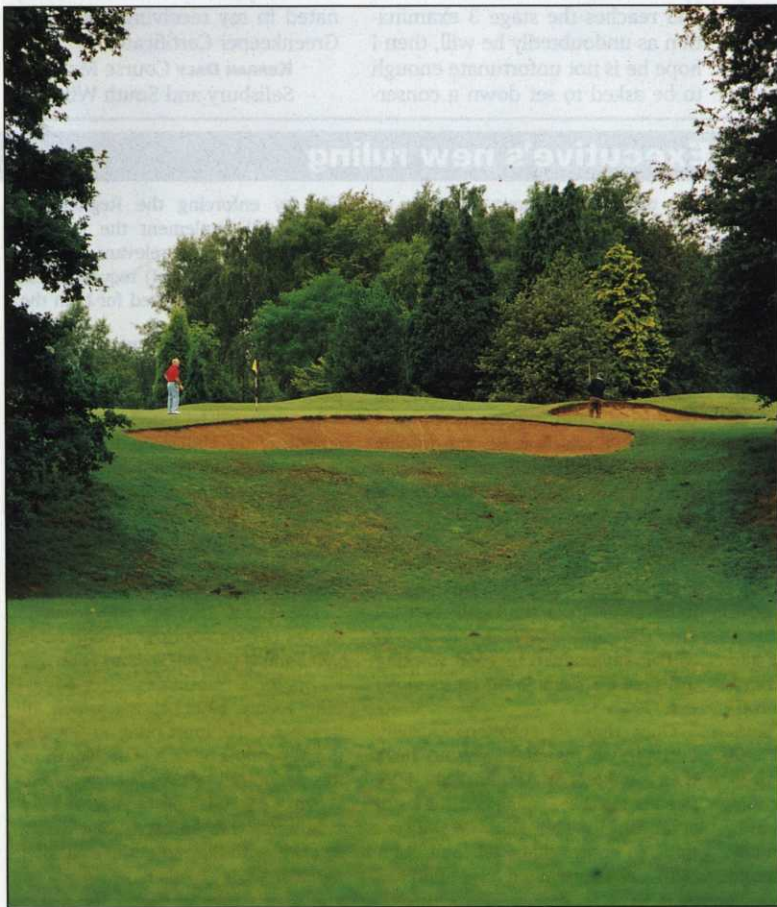
UK-manufactured RPE for which current certificates of approval have been extended by the HSE beyond 1 July 1992 will be listed in the third edition of the HSE document "Respiratory Protective Equipment: Legislative Requirements and Lists of HSE Approved Standards and Type Approved Equipment" due to be published this autumn. It will be available from HMSO.

The reason why the HSE's extension of current approval certificates is indefinite is that the Product Directive allows for a transition period, beginning 1 July 1992, during which all member states must bring in Regulations to implement it. The length of this period has not yet been finalised. When it is, HSE will then issue new certificates with an expiry date set to coincide with the end of the transition period.

# In the



DAVID WHITE visits Coventry Golf Club and meets the man “with the longest temporary job in the Midlands” – head greenkeeper JOHN BAYLISS (pictured)



First impressions count. The occasional visitor to Coventry Finham Park, coming upon the course for the first time, could not fail to be impressed by the prettiness of the place. Located just a couple of miles from the city centre and almost in the shadow of the Warwick/Kenilworth by-pass, the course is a haven of very well kept trees, hundreds and hundreds of them, many of mature age. There are large and venerable oaks, mature beeches and chestnuts, plus others of more recent vintage: conifers, silver birch, evergreens, acers, cherry and whitebeam. It is a veritable haven of arboriculture and the knowledgeable will be struck by the great care taken in their upkeep, the mature specimens neatly strimmed at their bases, younger brethren properly cleared and given breathing space to grow and prosper.

Granted, prettiness alone cannot turn an inferior golf course into a good one or make it a proper test of golfing skills, but at Finham Park the care is apparent in presenting this delightful parkland setting as a very proper golfing examination: a layout where thinking and plotting will bring hugely satisfying results. There is room on many occasions for the player to open his shoulders, with five par fives and nine par fours, and the aforementioned trees, along with natural ponds at the 6th, 7th and 14th holes and the meandering river Sowe are, to say the least, strategic rather than penal. That stated, Finham Park is not a place to wander too far off line, for therein lies the devil in waiting...

Who do we have to thank for all this strategic magnificence? Obviously the original course architect, Tom Vardon, brother of the great Harry, must have seen the cunning and logic in utilising Finham Park's natural contours, streams and original trees. Add to this the divine inspiration of six times Open Champion Harry Vardon in planning all the bunker locations (after all, who better than he in deciding where a bunker should or shouldn't be?), plus a concerted programme of tree planting in the fifties and donated saplings (memorials to deceased members) adding to the total that continues to grow, both in number and intensity.

Further, there is more than a touch of Fred Hawtree's magic in the layout, for it was he who designed the new 9th and 10th holes that replaced those lost to the Kenilworth by-pass in 1964, along with a general re-designing to bring the 9th and 18th greens back in close proximity to the new elevated and balconied clubhouse.

Those fortunate to have battled through the ranks of qualifying into the final of the Iseki Tournament will be in no doubt that Coventry Finham Park is a fitting place for a very grand, grand finale. It is to head greenkeeper John Bayliss and his dedicated crew of eight – including two part-timers and a talented full-time gardener – that much of the credit must be awarded.

John has seen a few changes in his 22 years at the Club, a job he took at the age of 17 as a temporary 'fill-in' – “the longest temporary job in the Midlands”, as he now describes it. He has been the head greenkeeper for four years, answerable to a green committee of six or so with, naturally enough, the occasional contentious 'demand' from the rank and file – “but we have a course management policy document that is pretty well set to be the bible”, he said, “and though this is in draft stage right now, once established it will provide all that is necessary to ensure that a programme once scheduled will be implemented without diversion”.

I understand the Coventry policy document came as a direct result of green committee members attending a recent seminar, which extolled the virtues of both policy making and continuity. It is to the Club's credit that they have chosen to take this first step to an enlightened route. To illustrate a point on earlier 'about turn' directives, resulting through changes in committee (and therefore opinion), John pointed to the case of a bunker that was first ordered to be levelled, then raised to a grassy hollow, then back to a bunker and yes, you've guessed it, now it's a grassy hollow again. “I hope it stays that way”, he grinned.

Rightly so, John attends every green committee meeting and presents a monthly progress report for comment and approval.



# DRIVING seat

He's computerised and keeps all his records, charts and irrigation data on his own Omega – in a nutshell, one could say he is on-the-ball!

We touched on relationships with the Club: were they good to work for? "It would be untrue if I didn't say there were communication problems back in the earlier days of my career here", he said, "but from a period of 'them and us' in the seventies we've come full circle to a wonderful and totally open situation where communication is all – The secretary, Mr Jarman, is quite splendid in that respect and we are never left in the dark – yes, they're a grand membership and I'm very happy".

Coventry Golf Club and John Bayliss are no strangers to the big event, for this popular venue has hosted many professional tournaments – including the Teachers Seniors, the Coca-Cola Young Professionals and the WPGA Carlsberg Tournaments – along with the larger motor trade jamborees staged by local manufacturers Jaguar and Peugeot. In addition, the course regularly attracts golfing societies and 'company days' and these groups take to the tee about twice a week.

Unlike many Midland Clubs, Coventry has no water problems. Quite apart from a spring in the pond at the third, from which the Club is licenced by the NRA to extract a maximum of 8,000 gallons a day (restricted at present), they are perhaps most blessed in being within 2,000m of pipeline from a Severn Trent Water Authority re-cycling plant. They buy such treated water – which goes through an ultra violet process to eliminate nasty microbes – at an advantageous price and the deal provides for upwards of a million gallons a year. With full tees and greens Watermation TW3 irrigation, together with the natural location of the course in a sheltered and sometimes humid valley, growth is rarely other than lush. This is one course where green is the predominant colour.

Greenkeepers competing in the Iseki final will certainly not be disappointed with the Coventry Golf Club. When their round is over they will find added pleasure in watching other competitors pull up the eighteenth, a lovely finishing hole with a fairway that leans gently to the right, coaxing pulls and slices into the silver birches – all this may be viewed from the elevated first floor lounge, high up on the course and perfectly placed for armchair critics.

## COVENTRY GC PREPARES FOR ISEKI FINALS



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# ENVIRONMENTAL ASSESSMENTS:

# LAW OR

**G**olf course developers and owners could be forgiven for being confused over the whole issue of Environmental Assessments (EA). Without some analysis of the environmental impact of a proposed course, planning permission may be difficult if not impossible to achieve. Yet, under the terms of EC Directive 85/337, adopted here in 1988, golf courses are not included in the list of sites requiring EA as a condition of development.

In most cases, the local planning authority is only likely to call on developers or owners to undertake a full EA where the proposed site is in or near an area with special landscape designation such as an Area of Outstanding Natural Beauty (AONB) or a Site of Special Scientific Interest (SSSI). This is also likely to apply where additional development, for example, a hotel complex, is planned as part of the scheme.

The situation does however vary between councils. In many cases, local plans will include a catch-all policy which gives general guidance on environmental considerations without requesting an actual assessment. For example, the Coventry Unitary Development Plan states that 'proposals for the development of outdoor sport and recreation facilities will normally be permitted provided that - any associated development maintains the existing character of the landscape; the activity is compatible with, and sympathetic to the immediate locality, and it is managed to achieve a balance between the needs of the activity and nature conservation.' In contrast both New Forest and Salisbury District Councils seek some form of evidence that there will be no adverse impact, or that the impact will be mitigated. This is effectively a requirement to produce a form of EA, although this may not be the full assessment as defined by the EC Directive.

## Benefits

It is important to remember that EA should not be viewed merely as a means of gaining planning permission. It should also provide the basis for environmentally-responsible design; as the most successful courses, in both commercial and environmental terms, are those which emerge from the recommendations of the EA.

There are also financial implications. The EA will often highlight the need for essential work. By identifying, at an early stage, landscape or wildlife features that will have to be considered, it may even save money. Consider the alternative - if, for example, design work has been carried out prior to EA it may be rendered obsolete by the results. The design philosophy of the course could then require a radical rethink.

The EA may also offer benefits in terms of the developer's relationship with the local community. The assessment might include a dialogue with local residents and representatives of nature conservation groups who are



**Incorporation of existing trees and natural water bodies into the design enhances the environmental value of the course as in this example on Meon Valley Golf and Country Club**

likely to be aware of special plants or wildlife on a site. By undertaking this consultation process, the developer will allay fears about the development and reduce the risk of planning appeals.

## Process

So what does an Environmental Assessment entail? Essentially, it is a means of ensuring that the likely impact of a new development on the environment is fully understood before the development is allowed to proceed. A full assessment will look at a broad range of issues surrounding the impact of a proposal, at a level of detail which matches the scale of likely impact of the development. It usually describes and analyses the site, the development and its likely effects, and suggests measures that could be taken to mitigate any negative

impacts. It also usually highlights positive environmental benefits.

Among the aspects covered are the impact of the proposed development on vegetation, wildlife, soil, water, air, climate, human beings and cultural heritage, and the interaction between these.

Historic landscapes in particular are threatened by golf course development, and the EA will concentrate on historical research and field study, often with professional advice from organisations such as English Heritage, to ensure that such concerns are fully addressed.

Such a comprehensive survey is time-consuming and therefore may seem costly for smaller developments, or those which are outside areas of particular landscape importance. In such cases it is often possible to undertake a more restricted assessment. The Institute of

# RESPONSIBILITY?

Environmental Assessment is able to provide names of specialists to advise on the level of assessment which would be suitable for a particular site.

There is no doubt though that some form of assessment, even if a full EA in accordance with EC Directives is not required, will significantly ease the path of an application through the planning system, as local authorities will in practice be better disposed towards a development when briefed on the likely environmental impact.

It is also a case of the earlier the better. Environmental considerations must be taken into account at an early stage in the design process, if the right balance is to be achieved between conserving the environment and meeting the needs of golfers.

## Principles

Whilst it is difficult to generalise on the recommendations that an EA will make, there are some general principles that environmentally conscious golf course developers should consider:

- retain and where possible enhance natural features such as streams and ditches.
- avoid the creation of artificial topography.
- avoid use of bunkers if possible or locate them where they will be unobtrusive.
- consider the visual impact of the design from nearby roads, footpaths or houses, and respect these views.
- retain the planting type that has developed on the site and plant native species of trees and shrubs.
- ensure that there is a gentle transition between the edge of the course and surrounding countryside, by allowing more space than might be absolutely necessary.

Over recent years, developers of golf courses have argued vigorously for planning permission on the grounds that golf courses are environmentally friendly, in that they have a nature conservation role and open up previously private land for public enjoyment.

In many cases this is true, particularly where environmental considerations have been taken into account not only in the design but in other aspects such as maintenance, where for example, by keeping the mowing of roughs to a minimum, reducing the use of fertilisers and ensuring that chemicals do not contaminate water bodies, the ecological value of a course can be enhanced.

One thing is certain, developers of new courses, or those planning to extend existing ones, should be wary of complacency about the environmental status of the site. Experience suggests that while an EA may not be formally required, developers who fail to undertake some study of environmental impact will probably live to regret it.

■ **LATE NEWS:** The Government has just announced proposals which would require formal environmental assessments for golf courses if the proposal is in a national park, an



Utilisation of natural contours enables the golf course to blend into the surrounding countryside, as in this example on Meon Valley Golf and Country Club



Letting the rough grow wild encourages a diverse habitat for both flora and fauna as in this example on Meon Valley Golf and Country Club

AONB, an SSSI or a heritage coast. Golf courses proposed in so-called 'historic landscapes' may also require environmental assessment. At this stage, the proposals are included in a consultation paper issued by the D of E but they are expected to be included in regula-

tions to be issued after the consultation period.

● The authors are Martin Hawthorne, director of Fareham-based HGP Planning Consultancy Limited, Assessor Members of the Institute of Environmental Assessment, and Chris Driver, director of Hyland Edgar Driver, Landscape Architects and Environmental Consultants.



Winner Nick Faldo with the BIGGA Support Team at the 18th



Ken Ramsbottom smooths Faldo's damage



BIGGA chairman Roy Kates with Ian Woosnam



Tension mounts over the last few holes...

# BIGGA at The Open

It was a coming together of the greatest: Nick Faldo regained his position as number one in the world, winning The Open over the acknowledged greatest British course and breaking a ninety year old Muirfield jinx in achieving a great double victory over the same links, last achieved by James Braid way back in 1901/06.

For the week of The Open there were accolades flying thick and fast for course manager Chris Whittle and his splendid team, and certainly during Open week he was the greatest greenkeeper of them all, producing surfaces that were, quite simply, exceptional. In his modest way Chris would credit the Great Greenkeeper in the Sky for more than a little help, with blessed rain falling in just the right amount and, save a brief shower during play over the final eighteen, always at the right time.

Finally, throughout The Championship the team of BIGGA greenkeepers made onlookers increasingly aware that they were the backbone of the championship, caring quietly for the greatest bunkers on the greatest course with the greatest of skill.

If further proof were needed, it came from those in TV and radio whose job it was to



Course Manager Chris Whittle meets Viscount Whitelaw; BIGGA Education Officer David Golding, centre, looks on

entertain and inform the golf hungry world – for they also were generous in praise for Muirfield, for Chris Whittle and for the BIGGA Support Team – yes indeed, 'Great Golf Courses Need Great Greenkeepers'. At Muirfield for the 121st Open Championship it was plain for all to see that they have them.



With thanks: BIGGA chairman Roy Kates hands plaques in appreciation of continued support for the Association to Jacobsen's René Orban (left); Hardi's Colin Gregory (centre) and Ransomes' Richard Bishop



Nick Faldo's caddy, Fanny, with members of the support team

**Pictures by  
DAVID WHITE**



A time for posing: with Willie Aitchison, long-time caddy for Lee Trevino



Happy faces at the finish



A past Open Champion, Mark Calcavecchia, with Swedish greenkeeper Jan Jonsson

# Removing the SCAR

If you walk out of Hetton le Hole on the south side and turn onto the footpath to Easington you skirt a small lake on your right and find yourself walking through a smooth green landscape which stretches into the distance, rising and falling gently, evenly covered in fresh young grass. Not so long ago this was the site of the Elemore colliery spoil heap, a seventy five foot high hog's back type formation which has dominated the local landscape for nearly 30 years since the mine was closed down in 1960. Over the years the spoil had become covered in scrubby grass and shrubs giving the broken land some dignity as nature slowly took it over again, but it has had the bleak look of wasteland for so long now that its regeneration is likely to be welcome.

The transformation is due to ambitious plans by Sunderland City Council to reclaim such land left derelict by the activities of the mineral extraction industries and give it a new lease of life by officially restoring it to public use, although at Elemore local people and dog-owners have used the network of footpaths heavily for years. The City bought the land from British Coal in 1987 and since then, while the initial job of clearing the colliery buildings was going ahead, has put together various studies and policy documents analysing the potential

of the site. The intention was, broadly speaking, to provide "opportunities for countryside recreation facilities... within a woodland setting".

A golfing facility was always a popular option for the site which covers 55 hectares. As has been well publicised, golf has seen a dramatic increase in the numbers of people playing the game or wanting to take it up in the last five or ten years. As its image has gradually changed, its appeal has broadened considerably so that it is no longer the exclusive preserve of the higher income groups and we are seeing more women and juniors playing than ever before.

These are factors that have put

great strain on the recreational facilities of local authorities such as those within Tyne and Wear where the demand-to-supply ratio is more overbalanced than in surrounding areas. A local paper, The Evening Chronicle, published a survey showing most private golf clubs to have waiting lists that are either closed or between two and ten years long with subscription fees that cash in on the popularity of the sport. The article tells of the serious wear and tear on the overburdened municipal courses which see golfers queueing from the small hours at the week-ends just to get a starting time. Moreover, research done by the Northern Council for Sport and Recreation showed that the priority

area for new golf courses in the North East was Tyne and Wear, and Sunderland in particular which, to bridge the gap, was calculated to need eight new (9-hole) courses and additional year-round practice facilities.

There were other factors which made the choice of a golf course for the site the right one. The option of turning the land over to agriculture was inappropriate given the government's policies of taking agricultural land out of productive use. So-called "hard uses", further industrial or residential development, had been ruled out in line with a general increase in awareness of the value of urban fringe land. But as the site fell within the boundary of the pro-

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October 1990, pre-construction: a view looking north over Hetton from top of shale heap. Part of the heap is still visible on the left. Below: work in progress showing red and black shales in heap and stored topsoil pile in background

posed Great North Forest the perfect choice was to combine a new area of woodland with a variety of recreational activities, golf being one of the main amenities to be provided for.

The Great North Forest is one of the country's leading environmental initiatives, a partnership of several bodies and organisations including The Countryside Commission and Forestry Commission, Sunderland City Council and other local borough and district councils. Now two years old, the venture has already achieved the planting of the first 100 hectares of trees and wild flowers and has managed to raise awareness of the project by actively involving schools and community groups in their substantial events programme. Being committed to this project, and with the cost of tree planting adequately covered by Forestry Commission grants and the Government's Derelict Land Grant, the council has allowed for 13 of the Elemore site's 55 hectares to be planted with trees. Integrated with the planting will be a network of footpaths and bridleways providing important links with already established long distance walks.

This combination of benefits in providing a golf course on the site – the improvement of the environment alongside the provision of much needed mixed recreational facilities – was reinforced by the financial facts of undertaking the work: Central Government provides a 100% grant for reclamation works; tree-planting grants were assured; they have applied for a grant from the Sports Council for developing the golf course. Once in play as a municipal course the council stands to make good profit on the use of the amenity. They also had the option of selling it off to a private developer, although this defeated the object of providing a golf course for the community and has been rejected.

A year ago last January, work started on the major job of regrading the spoil heap to create a new landscape.

One pressing reason for getting the works underway as soon as possible was that with each bout of



heavy rain some of the houses on the south side of Hetton bordering the site were flooded due to the great amounts of run-off from the spoil heap. The flooding is an indication of just one of the particular problems very specific to the reclamation of colliery sites, namely the nature of the material, coal shale. It is a very dense material, impermeable and subject to compaction and therefore has a low water holding capacity. During the large scale reclamation works, heavy machinery can exert over 70lbs of pressure per square inch causing a surface density higher than that of an asphalt road. On top of this, the compaction limit beyond which grass roots will not grow is easily reached under the wheels of a box scraper.

So the design of the new landform, onto which a golf course layout would be drawn, tried to take account of this characteristic and directed water by the use of careful featuring and mounding away from south Hetton and into a balancing lake which would act as an irrigation source and a strategic feature of play.

The shifting and reshaping of the spoil has been no mean feat. Since the work started in January 1991, 500,000m of material have been moved by the experienced local contractors Andrew Golightly Ltd of Shildon, County Durham. The main colliery spoil heap to be regraded consisted of fragmented burnt, par-

tially burnt and unburnt red and grey shales. Some areas of combustion were in excess of 100°C making handling rather difficult. The bulk of the material was shifted by Caterpillar D8's with box scrapers and Caterpillar 837 box scrapers weighing over 50 tonnes each but with the high temperatures in parts of the shale heap the machines had to keep moving to avoid their tyres melting. Golightly's can console themselves that they avoided this expensive loss and that none of their machines were swallowed up altogether, as it has been known for burning shales to disintegrate and completely engulf a machine working on them!

### 'A year ago last January work started on the major job of regrading the spoil heap to create a new landscape'

Another problem was caused by large amounts of dust created by the movement of materials during spells of dry weather which upset local residents in the housing estates adjoining the site. To counteract this as far as possible water bowsers were used but it was difficult to eliminate the annoyance altogether.

At the planning stage, careful consideration was also given to the areas chosen for spreading the burning materials and the position of the balancing pond as part of the site as an area of nature conservation interest. The Nature Conservancy Council identified three areas adjoining a small stream on the western side of the heap which are particularly noted for acid grassland with gorse and hawthorn scrub which repre-

sent the best and largest example of a rare habitat within the County of Tyne and Wear and this area has been carefully incorporated into the golf course design.

Such were the main physical problems encountered but the chemical problems related mainly to the establishment of vegetation on the site. The most important factors limiting plant growth in most types of colliery spoil are acidity, salinity and deficiency of nitrogen and phosphorus.

Acidity is more acute in the black shales, whereas red burnt shale is only acidic for short periods and is considered more fertile. It was therefore ensured that the red spoil was spread to create the upper layers of the landforms with the less fertile black spoil buried underneath. This acidity actually worsens with weathering so that, whereas fresh colliery wastes tend to be neutral or alkaline, on exposure to air and water acid production takes place and, over the years, the pH of the spoil falls.

Acid conditions down to pH 4.0 are not directly harmful to plants, but they can interfere with the uptake of phosphate and calcium causing infertility problems. Below pH 4.0, as was the case at Elemore, the acidity is directly harmful to plant roots and may result in aluminium and manganese toxicities. Alongside this action, as iron and aluminium become soluble, they 'fix' phosphorous making it inaccessible to plant roots. The presence of metal salts tends to increase osmotic pressure sufficiently to make it difficult for root hairs to obtain water.

To counteract the acidity and compaction, the landforms first underwent the process of 'deep rip-

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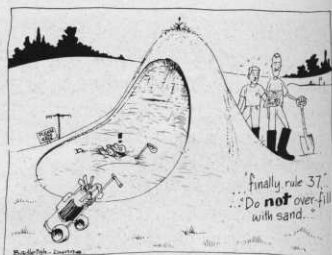
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# More than

**A** good bunker is not a simple hole in the ground. If a bunker is to perform well in play, careful pre-planning and construction is essential: covering location; orientation; size; style; angle of face, cross sectional profile and provision for free drainage. However, before getting into any technical detail in planning, everyone has to ask a simple question – is any new bunker necessary or valid? Bunkers are expensive to build (a contract price in 1992 is likely to be £750 to £1000 each, plus sand), are time-consuming to maintain and are not vital to every golf course or every hole on a golf course. There are still a few good courses with no bunkers at all!

If though, after deep and careful thought, the decision is made to proceed to the next step, then consideration has to be made of exact location, orientation, size and style. Of the first three items much will depend upon how it is intended to control the strategy of play, and which group of players the bunker is intended to penalise.

There are management considerations to be accounted for too, especially how the new bunker will affect



flow of play through the green. Many a new bunker has been spoiled by a track of bare ground around, due to funnelling of play. Orientation will also have an influence on whether or not grass can be grown on the face of the bunker. This is often difficult if the face is steep and exposed to a southerly aspect.

Turning to style, there are lots of different ways in which to build a bunker, but methods tend to tie in with the special management problems of different types of golf course. At the seaside, bunkers tend to be deep and fairly narrow to help keep the sand in, though hopefully not so deep that the water table is exposed for long periods each winter.

## REMOVING THE SCAR

ping' – which is the action of cutting drainage channels diagonally across contours – followed by the application of a 250mm layer of ground dolomitic limestone. The ripping process relieves compaction and aids the incorporation of the neutralising limestone. Deep incorporation also increases the permeability of the soil. On top of the limestone was spread a sealing layer of clay subsoil stripped from surrounding areas of low grade agricultural land and finally the topsoil layer was spread. The phosphate and nitrogen deficiency was treated at this stage by applying a fertilizer treatment and this was followed by a final application of powdered lime to counter the possible build up of acidity in the topsoil layer. By these methods the burning is gradually extinguished, the acidity is reduced enough for plant growth to begin and the site is ready for its 'fallow year' during which the vegetation and the new landforms will have the chance to establish themselves and take on a new permanence. That year begins about now as the contractor finishes off the painstaking job of stone picking.

Local people seem happy with their new pathways and the new surroundings. They are perhaps less happy with the fact that the steep sides of the lake prevent their dogs

from climbing out once they have gleefully leapt in after a stick! They have put up with a great deal but even at this early stage you can see it has been worth it. The City Council certainly thinks so now that the preparations for the golf course are getting underway. They have been very happy with the contractor and especially pleased to see that Golightly was prepared to undertake featuring and mounding work that would normally be part of the golf course construction. His willingness to do this extra shaping has saved Sunderland City Council a considerable amount of time and effort as an important part of the formation work for greens and tees has already been done. The Leisure Services Department will take over the remaining work of drainage and irrigation installation and final shaping in April 1993. They will be working under the supervision of Jonathan Gaunt, the golf course architect who has designed the course, a challenging 6,250 yard 18 hole pay-as-you-play.

There is still some way to go before work finally finishes and play begins in summer 1994 but the local community can already be well satisfied with the results of this reclamation scheme which would seem to amply justify others taking place or planned for the future.

● The author, Maja Mihajlovic, is a freelance journalist with a special interest in golf course architecture.



# a hole in the ground

## Revetting

Cutting deep into dune sand, or sometimes gravel, means that the side walls of a bunker will be unstable if unsupported. Hence the tradition of building turf walls brick fashion (revetting), packing behind mainly with sand, but using topsoil near the surface to give grass something to grow in around the bunker.

The turf used for revetting will generally come from the course, and comprise fine textured, very drought-tolerant species. So, when such fine, slow-growing turf is placed in an environment with minimal growing medium, it will knit up and survive but will not leave thick lush swards for frequent cutting on the faces.

Inland, the use of revetting can transfer well to very sandy or gravelly heaths, but is generally not a technique for parkland. The moister, richer environment, combined with the difficulty of obtaining turf of the right quality, means the faces become lush and clumpy, and the facing turf quickly breaks down under heavy management. It is worthwhile noting too that revetted bunkers which have been built inland tend to be over-steep on the sides and too flat on the bottom, giving impossible lies in the corners. Not very popular with members! Any steep-sided bunker must have a distinctly rounded floor and tight packing of the flooring sand, so that balls running into the bunker roll away from the margins.

The angle of face around the margins is created by stepping back each layer of the turf wall from a firm flat foundation, well below the proposed sand floor. The amount of stepping back will depend upon height and the desired angle, but no bunker wall should be less than 15° from the vertical. The entrance and margins of the bunker must roll down towards the sand, at an angle which will collect balls with a shape such that uniform mowing will be readily achievable. A sharp step from entrance turf to sand floor must be avoided.

## Drainage

Whether or not pipe drainage has to be provided in a sand or gravel subsoil is debatable, and the need will vary from site to site. On other soil types, pipe drainage is essential, leading to a positive outflow. The pipe drainage must be set into the base of the bunker some 200-250mm below floor level as a drain trench or soakaway point, depending upon the overall size of the bunker itself. The drain excavation must be backfilled with suitable aggregate and then blinded, blinding generally with a geotextile mem-

brane of adequate pore size, well overlapped to each side and securely pegged into slits.

To help water run to the drain, the floor of the bunker must be shaped and solid, to facilitate rapid water movement through the base of the sand (minimum gradient, say, 1:50).

The overall design of a bunker on parkland should also be such as to minimise the amount of water running into the hazard from surrounding land, which could well mean shaping shallow rises of turf around (swales), but not so marked as to direct a running ball away from the bunker itself.

## Parkland

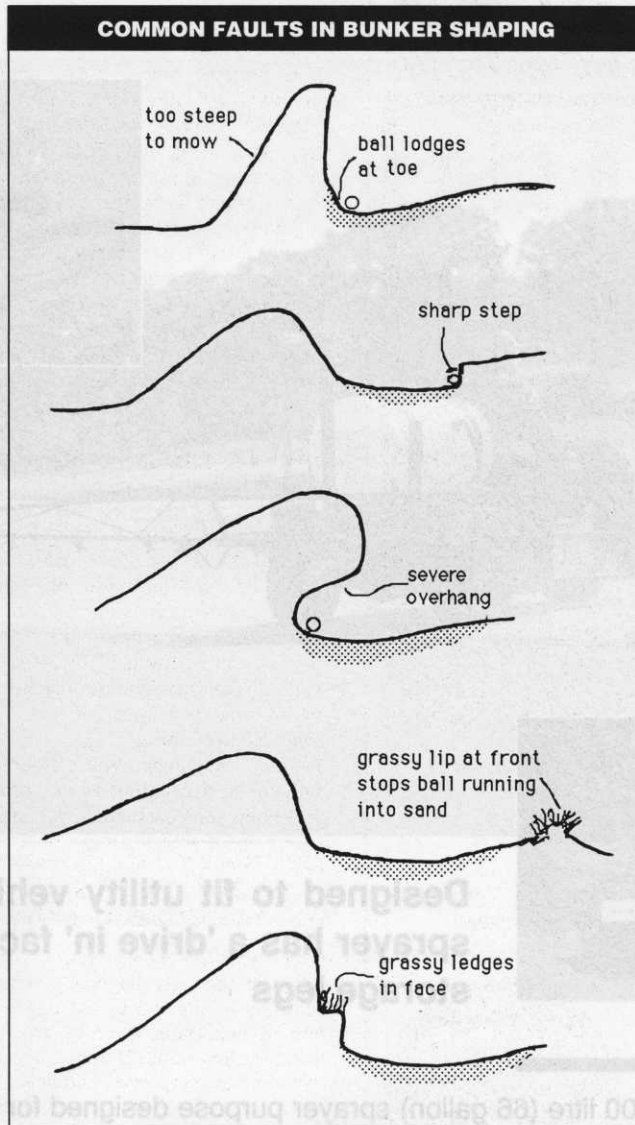
On parkland courses, a heavier sand is used in bunkers, and there is usually less problem with wind blow, so bunkers need not be so deep as at the seaside. This avoids the need to cut deep into poor-draining loams, clays or silts – necessary even if pipe drainage is provided. At the seaside, bunkers

will be 0.5m below ground level or deeper. Inland, the sand floor level need be no more than 100-150mm below general surround level and need not be so rounded as a consequence.

So a minimum of excavation needs to be sought on parkland courses, and careful shaping is required to provide for a minimum depth of sand (say 100mm firmed), and to avoid accumulation of loose sand at the entrance and at the toe of the face. Up the face of sand-faced bunkers, only a skim of sand is required.

The constraints of these requirements means careful shaping of the subsoil after excavation, and again after placement, to form the face and leading bank (if appropriate), so the right depth of sand can be placed and maintained, avoiding future management problems, in particular plugging.

When shaping out bunker floors and leading banks, look for flowing contours which marry in with the general topography of the site.



Nothing looks more obtrusive than a sharp high hump sticking out of flatish land. Make the bunker look as if it is part of the landscape, and has always been part of the landscape.

The angle of face in a parkland bunker will vary from 1:1 to 3:1 dependent upon distance from the putting surface (the further away the more shallow the angle) and how far sand is wanted up the face. For a sand-faced bunker a gradient of 2:1 would allow for sand, say one third of the way up, and if higher sanding is required, so also is a more shallow gradient.

## Geotextile Membranes

Should a geotextile membrane be used to cover the whole bunker floor, rather than just the drain trench? On unstable subsoils and very stony soils, this procedure is valuable, ensuring the right porosity of material, and that this is securely pegged beneath the surrounding turf and into the base of the bunker face. Never run the membrane up the face of bunkers though – it will just pull away. In such circumstances, particularly on stony sites, use turf to pin stones beneath the face and margins.

Elsewhere, in my view, the use of geotextile membranes should be avoided. They do tend to make the bunker sand fluffier than it would otherwise be.

Having shaped out a new bunker, fill it with good sand of approved grade – one which is known to work well. Inland, bunker sands are specified as a material with at least 75% of particles in the size range 0.25 to 1mm, free of grit, silt and clay. However, this specification is a basis for selection, not an absolute truth. Not all sands falling in with the above will be good bunker sands.

On parkland, allow for a minimum depth of sand of 100mm firmed, spreading in two 50mm layers, each trampled in wet to pack tight. Then just loosen the immediate surface and carry out raking to achieve a marry-through with surrounding turf. Up sand faces, a skimming of maximum 50mm depth should be aimed for. Post-maintenance must be geared to maintaining this uniformity.

At the seaside, new sands must also be placed and packed tight, shaped to give a distinctly rounded floor. Use dune sand for preference, giving a step down in grading from that detailed above, so the sand will be predominantly within the range 0.125 to 0.5mm. A lime content is permissible at the seaside – but not inland.

● The author, David Stansfield, is a senior agronomist with the Sports Turf Research Institute.



# KEEP ON TOP OF THE JOB

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HARDI ATV trailed sprayers

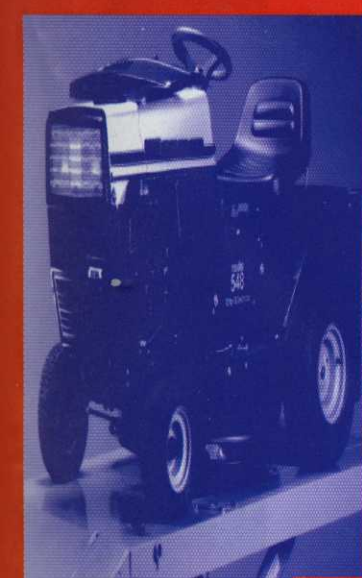
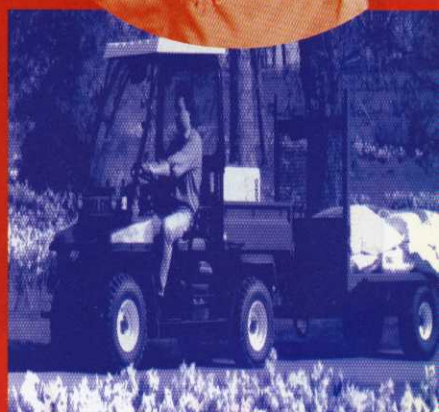
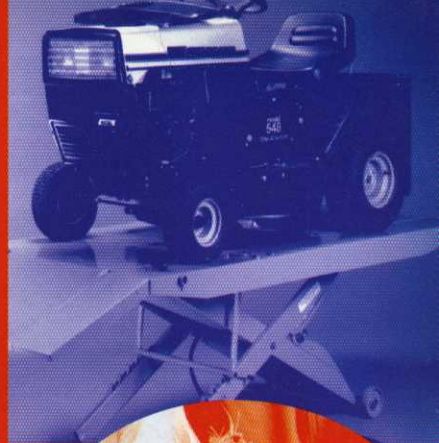
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# The IoG Show 1992

## PREVIEW

Covering some 26,000 sq m at the East of England Showground, Peterborough, the IoG Show 1992 is the industry's biggest outdoor event. *Greenkeeper International* presents an overview of the companies, the products and the services – and what you're likely to find on September 8-10. *See you there!*



See us on Stands L45, 46  
and 47 at the ICG



# Modus

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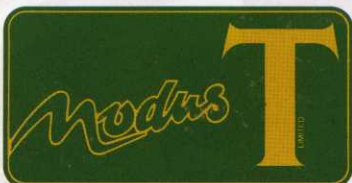
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NEW  
MANAGEMENT  
NEW  
MODELS

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62



# ● Bigger amenity range ● New sprayers ● Japanese collection ● Mules

**Agriland** has extended its amenity range since last year's show, so make a point of visiting them if you want to keep up-to-date with the latest in product development.

Agricrop liquid growth stimulant (which increases grass cover: STRI trials 1990) is now used nationwide and their Ferrogreen liquid iron (7.2% Fe, low N) has also achieved a premier position in the market.

The Classic range of liquid fertilizers, launched at the beginning of the season, has already proved a big success and the NPK plus calcium and boron product, specially formulated for light soils and sand constructions, is satisfying an important need.

As well as these leading lines, Agriland be showing their Multi-Purpose Wetter and two grades of seaweed meal soil conditioner.

They look forward to welcoming customers and friends (and competitors) on Stand K2-3.

**Hardi Limited** are launching their new AM range of sprayers created especially for the amenity and golf course market. These range in size from 200 to 800 litres in either de-mount, mounted or trailed form.

All sprayers are fitted with a balanced boom pressure control unit and these can be operated manually or by electric control. Another new innovation is the Hardi Walking Boom, which works in conjunction with a hose reel and operates exceptionally well via the new AM800T/ 800 litre trailed sprayer.

With a full range of options such as full electrics, pressure guns, chemical inductors and boutmarkers, you can be sure that in speaking with the experts at Hardi Limited, you will find the absolute answers to all your amenity chemical application equipment needs.

**Farm and Garden Machinery Ltd** will be showing the Japanese Shibaura range of tractors and commercial mowers on stand G32-35. Shibaura have a world-wide reputation for building excellent products, powered by their own diesel engines. The range begins with 14-16hp ride-on mowers, followed by the 'S' series 20-25hp multi-purpose tractor with mid mounted deck. Shibaura also produce two out front mowers – with 22 and 27hp engines – both of which have unique features that are well worth a second look. The 33hp and 38hp tractors are both supplied with special turf tyres – ideal for use over fine turf and cultivated land.



**New pneumatic lift from the USA with 450 kg payload**

With the imminent implementation of the new Health & Safety Directives regarding manual handling of loads, everybody with a workshop has a reason to visit the **R+R** stand no H64, where a range of workbenches to suit all requirements will be on display. The 'Groundsman' range of foot-operated hydraulic workbenches for servicing mowers, ride-ons etc are the ideal tool for meeting the requirements of the new directive. However, these benches are not just a means of meeting the latest regulations. Nowadays no workshop should be without a means of raising heavy machinery to a safe & comfortable working height. Added attractions include the launch of a robustly engineered and keenly priced pneumatic lift from the USA, and a new, easy to

fit pneumatic kit for the Groundsman lifts. Prices start at only £399+VAT and all units will be fully up and running for demonstration.

In this, their Diamond Jubilee year, **SISIS** will have on display a large number of items from their range of more than a hundred sports ground maintenance machines plus several new machines to be launched at the show.

Of particular interest will be the Auto-Trugreen ride-on maintenance system

for all turf playing surfaces. The Auto-Trugreen has twin split rollers, both driven by a hydraulic motor axle from an 8.5hp vertical shaft petrol engine. This provides a smooth forward/reverse traverse with variable speed control. A range of optional implements is available, including an additional roller; spiker-slitter; brush; rake and sarel type roller.

Leading compact tractor specialist **Kubota (UK) Ltd** is showing a series of new machines at IoG '92. The line up includes a new out front mower, a collector system, a walk behind roller mower and, exclusively for Kubota's Glide Shift Transmission tractor, the L2550 GST, a new Duncan Cab.

From the existing Kubota range, the revolutionary FZ2400 ride-on mower is highlighted together with models from the ride-on mower and compact tractor ranges.

Kubota's industrial division will show the OC Series and Super 5 Series of diesel engines together with the GS and GH Series of petrol systems.

Quality outdoor power equipment from Dolmar, Fuji Robin and Powerman, will be central to the **Outdoor Power Products** display at IoG '92. The stand contact will be OPP's sales director Chris Hindle.

On stand J51-53 you will see Dolmar's state of the art clearing saws, the MS 3300 and MS 4000. These combine the advantages of modern technology with ergonomic design and have been developed for safe use by professionals. In addition, the range of Dolmar chainsaws will be displayed.

The Fuji Robin brand will be well represented by brushcutters and hedgetrimmers, all designed to the highest engineering and safety standards. Fuji Robin hedgetrimmers offer a petrol engine solution to those who need to cut hedges in locations remote from electrical power supplies, and the range of versatile brushcutters are available in engine sizes 16 to 51.7cc to suit all needs. Powerman products will include the premier Rotary lawnmowers.

Since its introduction, the **Kawasaki Mule** utility vehicle has succeeded in establishing a niche in the ground care industry, where its low ground pressure and integral tipping cargo bed make it ideal for carrying awkward loads across rough, boggy or hallowed terrain.

Two of the models in the range – the 454cc Mule 1000 and its stablemate the 535cc 4x4 Mule 2010 – have room for a passenger, while the single-seater Mule 500 offers similar working benefits for lighter tasks, with a price tag to match. All three models will be displayed.

Also shown will be the new road use conversion kit – which enables the Mule to be registered as an agricultural motor vehicle or works truck – and the Weather-break cab (designed for weather protection only, and NOT manufactured to safety cab standards).



**SISIS Auto-Trugreen**

**The  
IoG  
Show 1992  
PREVIEW**



**Premier Lawnmower  
from Outdoor Power  
Products Ltd**

# LET US GIVE YOU THE EDGE THESE CLUBS ALREADY HAVE IT!

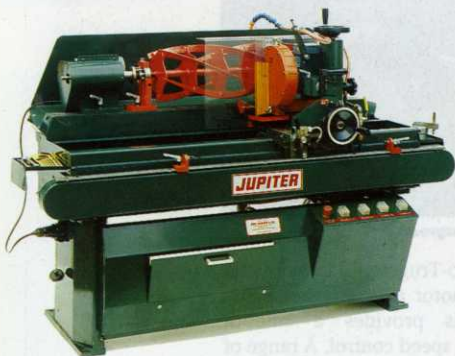
See us on Stands PCS1  
37, 38, 39 and 40 at the IOG

- Carnoustie Golf Links
- Cawdor Golf Club
- Charleslands Leisure (Co. Wicklow)
- Chirk Castle Golf Course
- Collingtree Leisure
- Crompton & Royton Golf Club
- Delapre Golf Complex
- Ely City Golf Club

- Gleneagles Hotel
- Goring and Streetley
- Hags Castle Club
- Harpenden Golf Club
- Kinross (Green Hotel)
- Leek Golf Club
- Lingfield Park
- Massereene Golf Club

- Mere Golf & Country Club
- Milltown Golf Club (Dublin)
- Muirfield (Gullane) Golf Club
- Omonde Fields Golf Club
- Ponteland Golf Club
- Royal Ashdown Forest Golf Club
- Royal Dornoch Golf Club
- Royal Liverpool Golf Club

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- St Andrews
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"A quality machine that gives a superb finish to our cylinders, and saves money." Mr. Derek Green, Head Greenkeeper of Royal Liverpool Golf Club.



The NEW JUNO 36" capacity Cylinder and Bottom Blade Grinder will accommodate every make and type of Professional and Domestic cutting cylinders and soleplates. Simple to operate, fast changeover from cylinder to bottom blade grinding.



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● All the ATVs ● Mulches ● Rakes

The  
**IoG**  
SHOW 1992  
PREVIEW



Weather break cabs are now available for the Mule range

Visitors to stand TBC can see the full ATV range including the new liquid-cooled 391cc KLF400B, which has extra pulling power, making it ideal for forestry work.

Kawasaki's generator range and a selection of two and four-stroke petrol engines will also feature.

A wide range of machinery for sportsturf drainage will be on display from **Shelton Trenching Systems**. At IoG for the first time will be the Shelton Cambridge range of Sand Groovers and Surface Slitters – machines for improving surface drainage



The Shelton Sand Groover

The proven Shelton Supertrenchers have been further developed – digging trenches from 25-135mm wide and up to 625mm deep. Some have grading capability, and all have conveyors to ensure a clean surface finish.

The popular Shelton Gravel Band Drainer for trenchless drainage, and hoppers for placing gravel and sand in narrow trenches will be featured and David Shelton will be on stand PCS 2-10 to discuss sportsturf drainage problems.

**Melcourt Industries**, leading UK manufacturer and supplier of specialist bark and wood based products, will be exhibiting with a new bark mulch in addition to its full range of products for effective grounds maintenance.

Melcourt's new Mulchip is a further addition to the company's expanding range of economy mulches. Produced from a mix of wood chips, bark, chipped branches, needles, leaves and twigs, Mulchip has a rich dark brown colour which is formed without the aid of chemicals by special heat treatments whereby the humic acid generated during maturation colours the wood chip.

Similar in colouring to bark, Mulchip is an effective but economical low maintenance mulch for larger areas. With a good resistance to wind and rain erosion, it is very durable and will give benefits for several years when laid to a minimum depth of 75mm. Like all Melcourt's products is 100% organic, peat-free and has no added chemicals.

**Lloyds of Letchworth** have taken larger stand space to accommodate their new extended range of grass cutting equipment, choosing IoG to unveil these exciting additions and introduce them to both established and new customers.

Also on display, the new Vertical Rake attachment for the Paladin is designed to help in the promotion of healthy growth through the removal of lateral growing grasses and other foreign matter. The unit has 26 specially hardened steel 10-bladed discs each set 90mm apart, is driven off the cylinder drive and can be fitted within 15 minutes.

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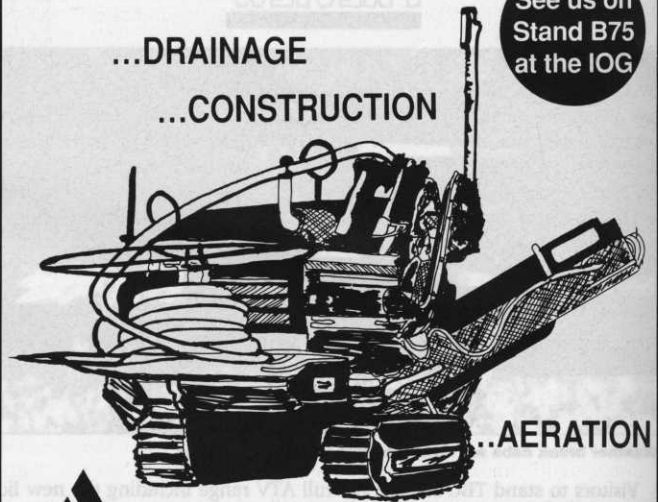
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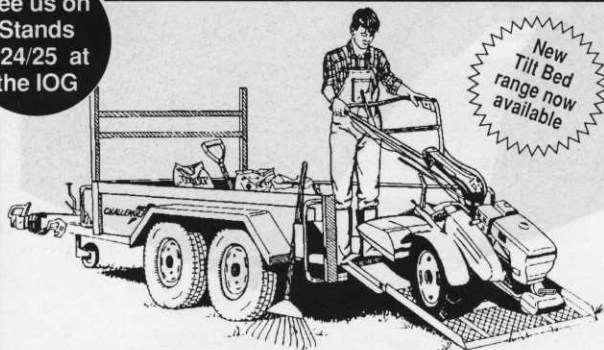
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See us on Stands K24/25 at the IOG



New Tilt Bed range now available

## "My Challenger trailer? Gives me the edge every time!"

In the grass cutting business, having the right tools makes life so much easier.

The new Challenger range of trailers from Indespension features extra rugged steel construction, a fully galvanised finish for rust free life, and 'Super Ride' suspension for stable towing (especially when empty).

There are sensible outboard wheels for stability, a low floor for easy access, and on larger models a rear ramp for easy loading of wheeled equipment.

The Challenger range is also supported by Indespension's nationwide network of over 165 stockists, and a wealth of experience in solving transport problems for public and private businesses.

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AD REF 343



## ● Multi-purpose machines ● Line-marking ● Self-cultivating turf

Leda gang mowers for rough and semi-rough fairways; plus the unique Pentad Titan hydraulic gang mower will be on display on Stand No. N10-20.

Buying a Lloyds' mower ensures quality engineering plus the all-important personal and efficient after-sales service. A warm invitation is extended to view Lloyds range and find out more about their tailor-made winter servicing, which embraces all makes of equipment.

**Bucher** will be showing the full range of their multi-purpose use machines, including The TM Multi, a four wheel drive tractor unit with front and rear PTO and the TM850 tractor unit for steep bank work. Also shown will be pedestrian machines Elite 13, Record 38 and 27, along with the M300 unit.

This range of multi-purpose machines will be fitted with a range of implements, such as cylinder mowers, rotary mowers, flail units, grading harrows, spreaders and sweeper brushes. A range of 'machines for all seasons'.

Natural Solutions to get you Growing – **Farmura** will be showing their full range of organic and environmentally sensitive products, increasingly relevant in the planning of today's turf management programmes. Information and advice will be available on the range of liquid organic fertilisers, especially the reformulated Farmura Green and Farmura Porthcawl. With the growing interest in liquid feeding, Farmura have added 8-2-6 analysis to the Flo-Gro range of liquid fertilisers.

Ferosol Liquid Iron will be on display, together with information on autumn use for both colour and hardening of the turf. The soil conditioners, Farmgran and Kelplant, will be shown with research information. The benefits of Blazon, the non-staining, spray pattern indicator, will be on display. The Green Paver Support System for grass areas will be demonstrated along with the revolutionary Turf Irons for golf and bowls. Finally, Farmura will be launching a major new product – See them on stand no L17/18 – a warm welcome is assured.

**Sta-Brite** are probably the fastest growing suppliers of top quality turfcare products for greenkeepers in the Southern half of Britain. On stands K4/5/6/ they will be showing new products and well-established lines, including line marking systems; wetting agents; fertilisers; grass seed; top dressings; spreaders, sprayers and CDA applicators and sports equipment. In addition to Sta-Brite's own fertilisers, grass seed and top dressings, don't miss their new line-marking products, Schweizer high N slow-release fertilisers and special show offers.

Visitors to the IoG can see the unique **Netlon Advanced Turf System** (featured elsewhere in this issue) on Stand PCS 2-28/29.

Netlon Advanced Turf – a combination of natural turf and a mesh stabilised rootzone – provides natural, healthy turf with unrivalled resilience, durability and a unique self-cultivating action. The result is a surface which not only sustains frequent use but demands less maintenance. In high wear areas, the Advanced Turf System resists compaction, reducing waterlogging and preventing mud-baths. It also ensures that divots are smaller and the turf recovers in half the normal time.

Netlon Limited, based in Blackburn, has a long history of innovation since its foundation in the 1950s by Dr Brian Mercer, OBE. The Company uses the Netlon manufacturing process to create the mesh elements which form the basis of Netlon Advanced Turf, and the process is also used to create plastic nets and mesh for agricultural, gardening and packaging markets.

New for the show is **Vitax Ultraflow**, a concentrated long-term, non ionic wetting agent for sports and commercial turf.

Trialled at a number of leading golf courses: Carnoustie, Royal Liverpool, Royal Lytham & St Annes and Woburn, it has been found to be highly effective for up to 12 months with just one application.

Since its launch at BIGGA's British Turf Management Exhibition at Harrogate, many greenkeepers are adding their own testimonials to the benefits of the product, including Paddy McCarron of the Leicestershire GC, who is claiming a 60%



reduction on his greens watering requirement since applying Vitax Ultraflow.

Ultrawet, another exciting Vitax product, has been developed and formulated for the commercial grower and compost manufacturer.

**Johnson Seeds** colourful stand (PCS2/4-6) will be based on the company's 'J' team philosophy – built around product quality and customer care – and the enlarged 'J' range of mixtures, introduced at last year's IoG. Added to this is a special display of the turf perennial ryegrass, Cartel, plus a surprise feature which will be revealed to visitors on the opening day.

Photographic displays feature the six 'J' range categories: – J Range for overall sports and amenity application – JL Range for landscaping situations – JG Range for greens, tees, fairways and roughs on golf courses – JF Range for flowery landscapes – JR Range for reclamation work. Highlighted separately is Cartel, which is now incorporated into several Johnsons mixtures for hard wearing turf.

Visitors are invited to meet the 'J' team personally, discuss their requirements and find out more about the surprise feature.



Core sample showing ProBase 3 inserted by Cambridge Sand Groover

Derived from a silica based waste material, **ProBase** is an inert, non-toxic, granular material. Available in different grades, dependent on application, trials have proved that ProBase will provide an ecologically acceptable alternative to sand, gravel and limestone for all drainage applications.

Tests have shown that Probase No. 2 can offer the same drainage rate as a coarse sand, while also offering, with the same sample, the moisture retention capability of a fine or dune type of sand.

This combination, which is a direct result of the material structure, means that grass growth will establish very quickly while retaining the drainage capability of the material.

Sports fields etc. will not be left with unsightly lines of exposed sand following slit drainage, mowing etc. More importantly, due to its comparatively light weight, approximately one tonne per sq metre, a much improved yield is available. Stand D37.

**Rhone-Poulenc** will be launching Twister Flow at the IoG, a product recommended for the control of casting worms in all types of sports turf. Twister Flow contains 240 g/l of the carbamate insecticide Carbaryl in a flowable formulation. Having a contact acting mode Twister Flow gives the greenkeeper fast cast control. This new product is available in a five-litre pack which will give worm control over an area of 3,000 square metres. The product will be available from Rhone-Poulenc distributors.

Rhone-Poulenc CDA, weed, pest and disease control product range, that can be used without the addition of water and

The  
**IoG**  
Show 1992  
PREVIEW

IOG Stand  
Avenue K  
34-38  
53-58  
and Demo Area 4  
43-50

# A truly remarkable vehicle



When you invest in a Carryall by 'CLUB CAR' it begins to pay you back immediately. This exceptionally versatile vehicle has a full range of optional equipment and can be customised to meet your demanding requirements.

Each model has its own high performance specification which adds up to a tough and rugged machine giving you the speed and flexibility necessary to achieve cost-effective operation throughout a wide range of tasks.



## Carryall by

# Club Car



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# You Get More With TORO we've proved it!

Our position as market leaders in professional **TURF MANAGEMENT EQUIPMENT** illustrates the trust that 1000's of satisfied customers have in our machines. TORO guarantee you a superbly engineered machine that cannot be equalled in terms of **QUALITY & VALUE** plus an **AFTER SALES SERVICE** backed by the finest dealer network in the UK.

TORO have also introduced a unique 24hr 'unit-down service' ensuring immediate call off of any replacement part.



For all the facts and figures on the best model to suit your own specific requirements please give us a call and we will be pleased to arrange a demonstration without any obligation whatsoever.

**TORO** distributed by **LELY (UK) LIMITED**  
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IOG Stand  
Avenue K  
34-38  
53-58  
and Demo Area 4  
43-50



*in a class  
of their own*



Details please as ticked below

- DEMONSTRATION**
- FINANCE TERMS**
- PLEASE ASK REPRESENTATIVE TO CALL**
- LITERATURE**

Name (Block Caps please) \_\_\_\_\_

Gl.8.92

Student

Address \_\_\_\_\_

Post Code \_\_\_\_\_

Telephone \_\_\_\_\_

**AD  
REF  
61**

# AN UNBEATABLE PEDIGREE

SEE US AT THE  
I.O.G. STAND 141/42

Here at Atterton & Ellis we have been making Grinders for over 100 years and although we say so ourselves, we are rather good at it and our Grinders prove it!

It is hardly surprising that during this time we have made Grinders for just about every type of cylinder on the market and for most of the prominent Grounds and Golf Clubs around the country.



In fact, in our work shops at the moment we have Express Duals ready to go to America – the Atterton is well proven on the other side of the Atlantic too!

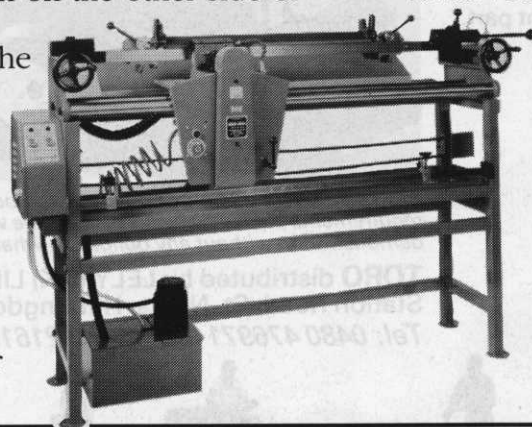
Our customers tell us the reasons we are still in demand 100 years on – *our dedication to service, the quality of build, the value for money* – they all add up to the finest Grinders available today.

We have constantly changed and adapted our

manufacturing techniques to combine *the best of yesterday's skills with the benefits of tomorrow's technology.*

But more important than all that we are first and foremost Grinding enthusiasts and are happy to talk and give advice whatever your grinding requirements.

The Express Dual is a technological revolution, in situ and separate cylinder grinding – The Anglemaster, a bottom blade grinder to complement the best in cylinder grinding machines.



## ATTERTON & ELLIS LTD

*Manufacturers of Fine Grinders for over 100 years*

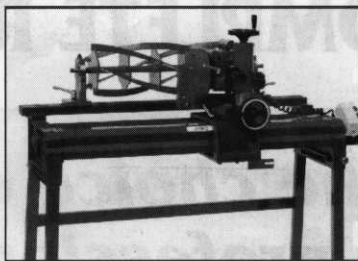
**Iron Works, Haverhill, Suffolk CB9 8QH**

**Tel: (0440) 702312 Fax: (0440) 712138**

● Reducing maintenance bills ● Signs and panels ● Specialist turf

straight from the bottle through a CDA spray lance, has now been completed with the addition of a cleaner fluid. This blend of surfactant has been specially developed for use with CDA Rovral and CDA Mildothane (fungicides), CDA Supertox 30 and CDA Dicotox Extra (selective herbicides) and CDA Castaway Plus for worm control with finally CDA Spasor as a total herbicide product.

As the costs of running a golf course continue to escalate, an increasing number are discovering a perfect way to improve course and reduce their maintenance bills. Most greenkeepers are self-reliant, so an equipped workshop makes sense to them.



Juno grinder

**Hunter Grinders** have the perfect machines for regrinding mower reels and bedknives. Their JUPITER machine, recently installed at Turnberry Hotel and several other golf complexes, can be seen in action.

Hunter's 36" capacity JUNO machine, ideal for any 18-36 hole course, is attracting much attention. Its unique specification and price (circa £4,000) appeal to any course manager interested in cutting grass and costs to a higher degree. "Relief grinding of the reels - which is how the JUNO operates - is winning many advocates as the advantages of less friction between the cutting blades are discovered.

Full training is given with Hunter's machines even though they are simple to operate - thus confidence in Hunter's product is easily given. For further information or a demonstration, we suggest you contact Hunter Grinders or see them at the exhibition on stands PCS1 -37/38/39/40.

**Shelley Signs Limited** will be displaying the part of their range of signs and panels which are suitable for golf course applications.

The signs are manufactured in Glass Reinforced Plastic (GRP) with the text and illustrations inset printed into the surface of the sign. This results in a totally smooth finish and a sign that is exceptionally durable, easy to clean and that will provide many years of service.

A number of sample signs and fixing arrangements will on display as well as examples of signs supplied to industry, local authorities and wildlife reserves. These signs are ideal for tee marker plates, entrances, directional indicators, car parks and clubhouses.

**Lindum Turf** on Stand B33 will be displaying their range of turf, well respected for use on golf courses nationally. Tournament is the top of the range, being a high quality fescue bent turf for the finest greens. Other grades include a pure bent for the specialist tees and surrounds turf, all available in large or small rolls.

Lindum's portfolio of products and services is being further enhanced by three additions:

- 1 A new range of fertilisers and top dressings
- 2 Overseeding package - quality seed and overseeder available for successful renovation.
- 3 Laying service by competent operators.

As official suppliers of turf and grass seed to Garden Festival Wales, Lindum will be demonstrating the dramatic contribution their Festival turf has made to this major landscape project. If you haven't yet visited the Festival you can win tickets in the Lindum Garden Festival Draw on their stand every day.

**Watermation**, the company at the forefront of automatic irrigation in this country, are once again introducing new products at the IoG exhibition on stand M30/31.

On show will be their new golf rotor sprinklers (GR range).

The  
**IoG**  
SHOW 1992  
PREVIEW



The **TM MULTI** from

**BUCHER**

OUR TM MULTI CAN PROVIDE YOU WITH:

- ★ 3 and 5 gang Reel Mowers
- ★ Rotary and Flail Mowers
- ★ Golf Ball Collectors
- ★ Aerators
- ★ Sweepers

WITH EFFICIENCY AND COMFORT

All hydraulically connected to our 4 wheel drive tractor unit.



See us  
on Stand  
K14, 15, 16  
at the IoG

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**SPEEDLAWN** offers a fast, economical and labour-saving lawn installation service with many benefits:

- ENCOURAGES RAPID ESTABLISHMENT
- FEWER VISIBLE JOINTS
- FASTER IN-USE PERIOD
- IMPROVED FINISH

Our **SPEEDLAWN** system is suitable for use in the following situations:

- LARGE AMENITY LAWNS
- GOLF GREENS, TEES & FAIRWAYS
- BOWLING GREENS
- SPORTS PITCHES
- CRICKET & TENNIS
- EMBANKMENTS

Normally laid on your own prepared surface, or we can offer a first-class preparation service.

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**No. 1**  
For Service  
and Quality  
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IOG on  
PCS2 Stand  
23/24

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## NOW THE COMPLETE RANGE

### The choice of the professionals



#### TOP-DRESSINGS

**No. 1**  
Medium/Fine from our Nucks Wood Quarry  
**No. 2**  
Medium/Fine from our Warrington Quarry  
**No. 3** A Coarser Grade Dressing from our Warrington Quarry



#### SANDS

Free draining lime free sands for Top Dressings, Bunkers, Drainage and Winter Sports pitches.  
**Sand suitable for USGA putting green construction**



#### ROOT ZONE MIX

Can meet USGA Specification, standard and individual mixes available for construction/reconstruction of Golf Greens and Tees. Consistency of Materials and unique delivery service guaranteed



#### SCREENED SOIL

Screened and shredded, this soil is ideal for all Construction, Divotting and Maintenance work. It is of Quarry origin and has guaranteed consistent quality



#### SEDGE PEAT

Mixed with No. 1, No. 2 or No. 3 Top-Dressings (at no extra cost) will aid moisture retention during dry summer months, especially for Links Courses. Also available on its own or as a tree planting compost

NATURALLY ORGANIC

The success of keeping your Golf Course or Sports Ground in top condition depends on you among other things buying top quality products.

All Rufford Products are produced from our own Quarries with no need to import Sand or Soils. All have been approved by leading agronomists and Soil

Scientists. Consistency of quality and our vast reserves enable you to purchase with total confidence.

You are invited to visit our Quarries to judge for yourself. Quite a number of course Managers and Agronomists have already done so and we would like to think they were just a little impressed.

**Rufford** All enquiries:-  
**(0925) 232476**  
TOP-DRESS SUPPLIES Acton Grange Quarry, Birchwood Lane, Moore, Warrington WA4 6XE

AD REF 5

AD REF 18

## ● Machines to buy ● Machines to hire ● Latest cylinder mowers

These consist of the GR2 (designed for golf greens) and the GR3 (suitable for large greens, fairways and approaches). These sprinklers incorporate all the well proven mechanism of the GN range, plus all the extra features called for in a modern golf rotor.

Other innovations to look out for include the new water and energy saving HYDROVISOR and the AQUA MASTER range of lake aerators. These aerators come with a large choice of sprays and are both beautiful and practical. They are indispensable if your ground includes water which suffers from algae build-up or weeds.

The new **Modus T Limited** (Stand L45-47) have pulled out all the stops for the 1992 IoG Show.

Amongst the new machines being launched are: • New MAINFRAME – over 30% lighter than the 'Selector frame'. • New POWERCORE – reliable and attractively priced. • New TOP DRESSER – with removable brush and roller and variable 'drop in' hoppers. • New SWEEPER – with increased 2m tip height, trailed scarifiers and improved brush system.

The IoG will also see the release of the Modus T 'Purpose' range: machines which meet today's requirements for solid construction and value for money.

**D & E Turf Maintenance Ltd** are on course for BS5750 quality accreditation for both their hire equipment and service department and fully realise that 'quality counts'.

D & E have extended their range with most of the equipment available on a 'U' drive basis – featuring Toro Hydroject, Shelton Sand Groover, Toro Fairway Aerator, Trilo vacuum sweeper/scarifier (pictured right), Toro greens aerator and Vertidrain.

Operating on a nationwide basis, the company invite you to visit and obtain details of demonstrations that are taking place in your area – see the 'easy way' to combat all your compaction problems.

D & E would like to record their thanks for the support given by the County Durham Development Co – first class support from a first class county!

**Dennis** (stands A&B 65) are releasing the latest edition to their cylinder mower range -the 20" Fine Turf FT510.

With a choice of 5.5 hp Kubota or Honda engine, the FT5 10 features interchangeable cassettes removable in just 20 seconds. A range of cassette options allow the machine to perform a wide range of tasks: • 9 blade cylinder for final cutting of golf greens etc. • 5 blade cylinder giving a quality cut to grass areas. Light (1mm blades) or heavy (2mm blades) scarifier with variable blade spacings of 8mm, 12mm, or 16mm. • Verticutter cassette

The  
**IoG**  
Show 1992  
PREVIEW



## AGRILAND

# LIQUID GROWTH STIMULANTS

ONE 25 LITRE CONTAINER TREATS 18 GOLF GREENS

## AGRIMASTER®

100% natural high nutrient foliar feed for better grass coverage, robust rooting, durability and healthy sward.

## AGRICROP®

Organic-based foliar feed with 5% nitrogen and 4.8% sulphur. Rapid uptake, high nutrient treatment for golf courses, wickets and all amenity turf.

Both products increase the coverage of fine grasses. STRI report 1991.



Agriland Ltd, Blue Roof Farm, Throop Road, Throop, Bournemouth, Dorset BH8 ODW  
Tel. (0202) 532291 Fax. (0202) 535224

AD  
REF  
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By Appointment to Her Majesty the Queen  
Manufacturers of Fertilisers and Insecticides  
Vitax Limited

# VITAX

## VITAX ULTRAFLO

## THE ULTIMATE WETTING AGENT

Formulated for today's climatic conditions. Water is one of our planet's most precious resources using it more resourcefully, makes both economical and environmental sense.

- Once a year treatment.
- Rapid and deep penetration through thatch and dry patch affected turf.
- Easy to mix in cold water and use in cold climatic conditions.
- Major savings on future watering and irrigation requirements.
- Maximises the benefits of subsequent fertiliser and chemical applications.
- Successfully trialled by a number of leading U.K. Golf Courses.

Available in 10 litre containers.



VITAX LTD.,  
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See us on Stand  
C78 at the IOG

# VITAX

## EXCITING NEW PRODUCT FOR TODAY'S TURF MANAGERS



By Appointment to Her Majesty the Queen  
Manufacturers of Fertilisers and Insecticides  
Vitax Limited

### PRODUCT FEATURES

- 1000's of patented micro perforated funnels moulded into the gro-cover polythene fabric.
- The design of the micro funnels collect and store the sun's heat.
- Gro cover floats on and protects the emerging grass.



PROBLEM GREEN

### VITAX GRO-COVER FOR FASTER & BETTER GRASS SEED ESTABLISHMENT

Now read what **Stewart Boyes, Head Greenkeeper of Harpenden Golf Club Ltd, Harpenden, Herts, has to say about Gro-Cover.**

"A complete cover of new grass in only two weeks and the green back in play within three. I cannot praise your product enough and would recommend it to anyone in the greenkeeping profession."

### PRODUCT BENEFITS

- Provides uniform ventilation and porosity with a 93.5% available light transmission.
- University tests show night low temperatures are increased up to 7°F for soil and 6°F for air.
- Protection against birds, wind and washaway.



3 WEEKS LATER

VITAX LTD., OWEN STREET, COALVILLE,  
LEICESTER LE6 2DE. TEL. 0530 510060. FAX. 0530 510299



● Easy to adjust ● Turf consultancy service ● Tools and accessories



Dennis FineTurf 510

for removing unwanted thatch layers. • Brush cassette with a wide variety of uses.

Positive and easy to adjust height of cut and cassette setting gives a cutting range from 1.6mm up to 13mm (1/16" to 1/2"). The drive system on the rear roller gives unrivalled speed control, infinitely variable between 0-4 mph. The drive to the cassette can be disengaged for transport. Height adjustable handle bars are free mounted to allow the machine to idle over ground undulations without any front roller lift. Transport wheels will be available as an optional extra. Backlapping to maintain the performance of the cutting cylinders is easily administered to the removed cassette.

The Inturf Group, which today produces well in excess of 1,200 acres of turfgrass, has yet again proven its commitment to the industry in achieving BS.5750 Quality Assurance registration. The Group offers a full consultancy service under the banner of Turfgrass Services International Limited.

Following the success of previous years, Inturf continues to endorse the "big roll" turf installation system whilst still meeting the demand for conventionally harvested amenity and sports turf, thereby fulfilling the requirements of a wide range of applications.

During the IoG Exhibition the full range of Inturf products will be displayed and professional advice will be provided by highly qualified personnel. See us on Stand K17/18.

The Patisson company manufacture and sell the biggest variety of golf course tools, golf range equipment and greenkeepers accessories available in Europe. They have been around since 1896, thus experience is evident in the general high quality of their goods and services.

Operating direct sales vans in the East, Home Counties, North and North West, they are proud to be strongly represented by the best known dealers and agents in the UK.

Among the 800 or more items on display on stand E12-24 will be new style litter baskets and bins, new style golf hole cups, new style golf course tee markers and direction notice boards and new style engraved stone markers and information signs.

In addition, this autumn sees a new ball dispenser added to range equipment for the new 'tight budget' range.

All these and a multitude of interesting products, plus a warm welcome from Peter Dell, Tony Hemingway and the Patisson team, awaits all visitors.

Indespension, the national trailer company, are manufacturers and distributors of a comprehensive range of trailers and trailer equipment. The range consists of fully galvanised trailers: Challenger goods; flat-beds; tilt deck and Tow-a-Van, all fitted with the new progressive Super-ride suspension system, only available from Indespension. Fully supported by a national network of stockists, Indespension are able to offer a spares and back-up service that is second to none. Information on short or

The  
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**FIRST CHOICE FOR  
TURF CARE PRODUCTS**

**STA-BRITE**  
STA-BRITE SUPPLIES LIMITED

**Prompt Delivery  
Competitive Prices  
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**FERTILISERS** STA-GREEN, Schweizer, Supaturf  
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**TOP DRESSINGS** STA-BRITE 70/30, 60/40 & Surrey Cricket + loose bulk

**PLUS NEW LINE MARKING PRODUCTS  
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**SEE US AT IOG  
K4/5/6**

**D&E TURF MAINTENANCE LTD  
FAIRWAY AERATION  
THE EASY WAY**



**THE TORO FAIRWAY AERATOR**

Hollow Core Your Large Areas up to 5" deep  
Remove thatch and increase decomposition  
Improve water penetration and percolation  
Increase the movement of fertilizers, pesticides and wetting agents  
Golf Course Fairways/Surrounds

Uplift cores with Trilo Vacuum Sweeper/Scarifier

**FOR QUALITY SERVICE NATIONWIDE**

Contact: **DAVE STEPHENSON**  
D&E Turf Maintenance Ltd, St Johns Schoolhouse,  
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See us  
on Stands  
J59 and 60  
at the  
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SEE US ON  
STAND L39 AT  
THE IOG SHOW




## Is There a Growing Need for Advice on Fertilizers? Talk to Rigby Taylor!

With the growing complexity of today's staggering array of fertilizers, all apparently with different formulations to perform perfectly whatever the growing conditions, even professionals sometimes hesitate to decide which one is right for them.

Rigby Taylor can help!

With over forty years in the business we have experience and specialised knowledge to share with you. Wherever there's a need for professional advice about grass seeds, fertilizers, pesticides, organics or indeed any advanced turf care products Rigby Taylor know how, know where and know when.

**Rigby Taylor** 

A **GROWING** FORCE IN LEISURE

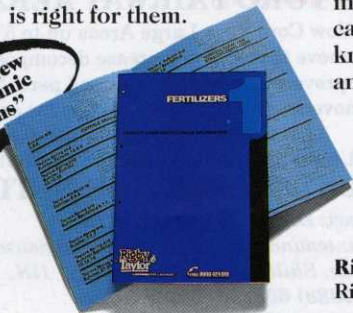
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Rigby Taylor House, Garside Street, Bolton, Lancs BL1 4AE Tel: 0204 394888 Fax: 0204 385276

**"NOW with a New Range of Organic Formulations"**



long term hire and the full range will be on show at IoG. Details, brochures etc. Tel: 0204 309797.

**Tildenet** are exhibiting their full range of sports netting products, featuring the revolutionary (GPC) Germination Sheet. This product has been developed with the help and expertise of the STRI and is employed by test and county cricket grounds, world famous golf courses and soccer stadiums. During the past few years more and more greenkeepers have benefited from the year round capability of the product: faster germination and frost protection during the winter being notable successes.

A versatile range of perimeter and ball stopping netting suitable for a wide variety of sports activities will also be on display. Tildenet have also produced a video and slides, which are available for seminars etc Tel:0272 669684

**Tillers Turf Company Ltd** grow some of the best greens turf in the country on their sand farms. Green King has been specified on more than 250 golf courses in the past year and is supplied in both big and small rolls. Lawn King for tees and Arena for winter sports pitches will be on display. Arena has recently been laid in big rolls on two entire football pitches.

Hot off the press will be the official trial results from the STRI on the performance of Fibreturf on tees. Fibreturf is the reinforced rootzone system which protects grass from the twin evils of compaction and wear. Read about it in this issue of Greenkeeper International and see for yourself how it works by visiting stand H12-24.

Following the successful launch of the Grandsweep vacuum sweeper at Peterborough last year, **Rytec Industrial Equipment Ltd** will be displaying and demonstrating a much enlarged range this year.

A new dump tip Grandsweep will be on display based on the popular GS285, now able to tip into a skip, trailer or pick-up body. Water/dust suppression and gulley brush further enhance

the machine for a dual sweeping role on turf and hard surfaces.

Larger machines are in growing demand and the new 8 cubic metre Grandsweep caters for large areas- combining a more powerful suction unit and a range of full brush pick-up heads up to 4m in width.

Look also for the Grandsweep Hurricane debris blower with its powerful fan and unique construction which allows big machine capabilities when used with mid to large compact tractors.

"At least two decades supply of guaranteed finest quality Norfolk Fen Soil" is how Alan Bailey of **Bailey's of Norfolk** describes their millions of cubic feet of rich black soil.

Norfolk Fen Soil, (particularly when mixed with kiln dried Leighton Buzzard sand) is widely recognised as providing a superior quality for rootzone mixes and top dressings.

Bailey's supply many of the finest courses throughout the British Isles with rich, fertile dressings and rootzone mixes for that consistent growing profile, ease of application, soil aeration, percolation and water retention. The Olympian range has been tested and approved by the STRI. Bailey's of Norfolk will be found on stand PCSI 20.

During the '92 season **Allett Mowers** have been struggling to keep up with the success of their Buffalo contracting box mower, launched at last year's IoG. Demand for these and other Allett machines dictated a substantial increase in production which could only be achieved by altering the existing manufacturing techniques. This in itself has improved the finish and quality of their machines even further. Secondly, keen to exploit this new found success and production capability, the dealer network has been substantially strengthened and will be managed and supported by a sales/demonstration team. Although no new machinery has been announced for this year's IoG, those who know the company will not be surprised to see something new. Amongst the machinery displayed will be the improved



See us on Stand  
B39 at the IoG

# THE COURSE LEADER

Lindum - the perfect turf for golf greens, tees, fairways and landscaping.

A range of the finest quality seeded turf; seed prescriptions and fertilisers matched to customers special needs; with a full preparation and after-care advisory service.

For golf courses, Lindum are the leaders, of course!

**LINDUM**  
FOR LANDSCAPE AND LEISURE



Church House, Horkstow, Barton on Humber, South Humberside, DN18 6BG. Telephone (065 261) 564 or 329. Fax (065 261) 447

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PREVIEW**

production Shaver/Tournament greens mowers, the Buffalo contract mower, and the evergreen 36RHE sportsfield mower. Allett welcome you to stand L54-55.

A major breakthrough in the field of tree moving in the UK, has been made by **Ruskins Tree Moving Ltd.** They have acquired a new tree-spade, the first of its kind in the UK, that will lift trees larger than any before, with unmatched survival rates.

The Stocker '8' Tree Spade is unlike any spade used presently in this country and Europe. It has been developed and manufactured by an American tree moving contractor with over 20 years experience. Particular attention has been paid to the specific needs of larger trees. Research has shown that the root structure of large trees with canopies anything up to 5m spread tends to be shallower and more widely spaced. Existing tree spades with their four blade configuration and narrow curvature are restricted to the root mass they surround and can experience difficulty when digging in rough terrain.

**Agripower Limited** (02406-6776) specialise in all aspects of sportsturf and amenity construction; land drainage; land restoration and reclamation; lake and pond construction; water supply landscaping; earthworks; road and car park construction and borehole soakaway installation. They have an extensive range of machinery and have recently added a stone picker and a Rotadairon stone burier. They undertake a full range of sportsturf maintenance work which includes Vertidrainning, overseeding, sand spreading and top dressing.

**Maxwell Hart Ltd** have been appointed the sole UK distributor to the sports and amenity turf market for the animal repellent Scuttle, by Fine Agrochemicals Limited.

Scuttle is approved by the Ministry of Agriculture for the control of browsing and grazing by deer, rabbits, hares and other mammals. Scuttle is based on naturally derived products and

offers a humane, safe and easy method of preventing animal damage to sports turf, trees and shrubs.

The browsing animals do not like the taste or smell of Scuttle and are deterred from browsing treated areas. Scuttle gives long lasting, cost effective control and can be used year round. Scuttle presents no hazards to wildlife, the user or the environment. See this and many other fine products on their stand.

**Cleveland Sitesafe Ltd** will be showing their complete range of movable all-steel secure storage units, for fuel, chemicals, tools and equipment, plus office, canteen and workshop facilities which can be combined to suit the customer's requirements.

Contact Irvine Weston on Stand D52-57. Tel: (0642) 475009/488328.

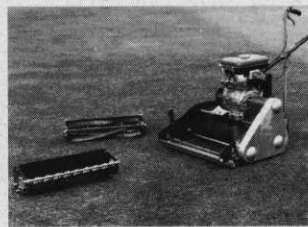
**Rolawn Turf Growers** will be celebrating ten years of their best-seller, Rolawn medallion and the success of their newer, exclusive, poa-free Advantage.

"Medallion is our most versatile and popular turf with millions of square yards sold every year," says Rachel Semlyen, Marketing Director, "the seed mix has always included the latest STRI rated dwarf creeping ryegrass cultivars making it a useful turf for any area receiving medium to heavy wear. Meanwhile, Advantage is proving its worth on hundreds of top golf courses where clean turf is a priority." All greenkeepers will receive a warm welcome on the Rolawn stand, PCSI 10-12.

Contact Rachel Semlyen or Guy Longbottom at Rolawn, Elvington, York YO2 5AR, telephone (0904) 608661.

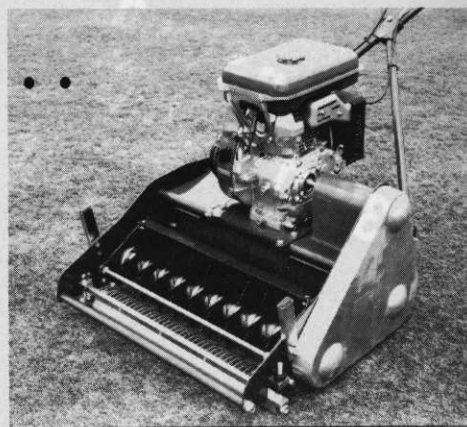
With greater awareness now being given to construction and maintenance material and with individual requirements varying greatly, **Rufford Top Dress** can offer customers every conceivable choice in top dressings at prices to suit available resources. The company's recently launched budget mix top dressing and other new products will be on show for the first

# The new FT510.



... unrivalled for performance and versatility.

- Interchangeable cassettes removable in just 20 seconds
- Cassette options:
  - 9 blade cylinder
  - 5 blade cylinder
  - light or heavy scarifier
  - verti-cutter cassette
  - brush cassette
- Independent variable forward speed



## DENNIS

The Professional Grass Care Equipment Manufacturers

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Telephone 0332 824777

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B65-65A

## ● Better bunker rake ● Total turf care ● Specialist advice ● New mats

time with their complete range which includes No. 1, No. 2 and No. 3 top dressings, bunker sands, soil, winter sports pitch construction and maintenance materials, golf green, tee and bowling green rootzones. Please accept our invitation to join us for refreshments and a chat on PCS2 Stand No. 23/24. Tel: 0925 232476.

The **Toro** company, through their UK distributor, **Lely (UK) Ltd**, will be exhibiting several new products this year at the IoG on Stand No. K53-58, 34-39.

Sand Pro 5000 is a 3WD premium quality bunker rake with improved performance and operator comfort.

Sand Pro 2000 is a 2WD lower cost alternative retaining many of the features of the 5000 such as hydraulic lift and hydrostatic drive.

The Reelmaster 5100D advances the standard of lightweight fairway mowing set by its predecessor, the RM223D. The RM 5100D uses automated control electronics. This enhanced system employs proven electronic technology to provide additional reliability and serviceability. The RM 5100D will automatically adjust the reel speed according to the mowing speed to provide the optimum quality of cut.

The Groundmaster 455D is a large 10.5 foot out front rotary mower that combines large scale productivity with the manoeuvrability of a trim mower. Available in 2WD or 4WD, the 455D features a patented weight transfer system which automatically transfers the deck weight to the traction wheels on demand.

The Toro Guardian 72" Recycler deck for the Groundmaster 300 series features special deflectors that cut and re-cut clippings, forcing them back into the turf, achieving an excellent after cut appearance without windrowing but with the safety of no discharge.

The Turbo Mower is a patented multi cutter representing a technological breakthrough in grass cutting and has been designed and manufactured in collaboration with the Turbo Mower Company of Canada and the Toro company. The versatility and strength of the Turbo mower makes it an ideal choice over a wide variety of applications.

Total turf care from **Ransomes** – the slogan that means Ransomes has machinery to meet all your needs, whatever your turf care requirements. At this year's IoG exhibition Ransomes will show a comprehensive range of grass cutting machinery, supplemented by a number of Cushman and Ryan turf maintenance products.

Visit stand C64-75 and see for yourself how Ransomes can provide products for your total turf care requirement.

**Hayters'** very large stand (M45-60) will reflect the importance the company places on the grasscare machinery market.

For golf courses, the T24, T44 and Articulator has proved very popular during 1992. The introduction of the T92 Triplex and the Beaver range of hydraulic gang mowers, put Hayters well and truly in the golf course sector.

Hayters will be introducing some exciting new additions to their range and popular demand has led to the re-launch of the Ambassador 20" cylinder mower, with added features.

Visitors to the **Barenbrug** stand B43-44 will be able to receive invaluable free advice from the country's foremost grass experts.

Robert Laycock, well known agronomist, consultant and writer, has been invited to join Barenbrug's panel of experts and share his 20 years of practical experience and scientific study as the host of the Barenbrug Turf Clinic.

Barenbrug is unique amongst seed suppliers in having outstanding varieties in every category of commercial importance.

Over many years, Barenbrug has bred superior strains which have been formulated into 15 mixtures carrying the BAR-prefix, each one tailored to meet the exacting standards set by different sectors of the amenity industry.

**Huxleys** are launching three new accessories for the Huxtruk Turf Maintenance Vehicle at this year's IoG on stand M19-24. The large capacity top-dresser spreads over the full width of the Huxtruk's wheels and is hydraulically controlled from the driver's seat. The 400 litre sprayer has a new low-profile design, balanced pressure control and clean water container. The Huxtruk weather cab is simple to fit or remove from the vehicle and has optional doors.

These new accessories complement the existing wide range of turf care attachments displayed by Huxleys for use with the Huxtruk or other turf vehicles and compact tractors.

Once again **Rigby Taylor** are pleased to welcome everyone to visit their stand L39 to view their range of products.

Work is always in progress to improve existing products and develop new

ones. This year a number of introductions to the range will be on display.

As well as regional representatives, Rigby Taylor's two agronomists will be on hand for specialised technical advice.

**Atterton & Ellis** are to show their Express Dual at the IoG Show. It is capable of not only conventional plain cylinder grinding with the cylinder removed, but also in-situ grinding of the cylinder when still mounted in the machine – a particularly useful feature when resharpening mid-season.

The Anglemaster heavy duty bottom blade will also be shown by the company and will include a power traverse feature.

All machines are well proven and carry the Atterton hallmark of quality and reliability and may be seen in use in many of the leading Golf Courses throughout the country as well as many other parts of the world.

More details from Atterton & Ellis on Stand I41-42. Contact them at Iron Works, Haverhill, Suffolk or call them on 0440 702312, (fax: 0440 712138).

There's great news from **Maxwell Hart** at the IoG Show – they will be introducing their new range of Easy Picker Golf Driving Range equipment along with the Ultimat, a range mat guaranteed for a year against rips, tears and de-lamination. This mat will be available for you to try out in a specially constructed golf enclosure. Supplementing this will be a new range of cost-effective golf flags and pins from Standard Golf, available from 1st October.

If you have problems with waterlogging or water retention, come along and see how Perk can solve your problems at a cost of less than £1.75 per 500 sq m. We look forward to meeting you on Stand H45-46.

As well as our range of cultivated turves, **Fairfield** will be exhibiting a new fine-textured "Salt Tolerant" turf.

"Speedlawn" is the new name "Big Roll" turf laying service from Fairfield, together with a high quality soil preparation service.

Fairfield Turf (Golf Construction) Ltd is the most recent service from Fairfield and offers a complete design and build service to prospective clients. This service includes the construction of cricket squares and bowling greens.

Fairfield will also be exhibiting a range of materials including mulches, soils, seeds and the Scotts range of slow release fertilisers.

SEE US ON STAND PCS1 49-50 AT I.O.G.

# SHELLEY

## SHELLEY SIGNS LIMITED

EATON-ON-TERN • MARKET DRAYTON • SHROPSHIRE TF9 2BX  
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NEW STANDARD RANGE AVAILABLE.  
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DESIGNERS AND MANUFACTURERS

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# THE BIGGEST GANG SHOW EVER

Match the biggest Kubota yet with the Ransome hydraulic gang units and you've got the ideal combination for mowing the big, open spaces of fairways and sports grounds.

The Kubota 59.5hp, 4WD, 5 cylinder direct injection engine has the power and lugging power that leads to efficient cutting of the largest areas. Its innovative 'Ever Clutch', the first to be guaranteed for 1500 hours, can be operated with only 10% of the effort required for conventional clutches. And yet the whole tractor weighs in at just 4200kg for minimal turf damage and a high power-to-weight ratio.

It provides the ideal match for the Ransome Hydraulic 5/7 gang mower - to cut large areas in double quick time.

And because the gangs are quickly removable, you can make the most of the powerful versatility of the tractor, which includes a UK-designed integral low noise cab, a lift capacity of 1900kg, and hydraulic shuttle transmission which means it can be driven and reversed without using the clutch - an important benefit when using the tractor with a loader.

If you want the ultimate gang show, settle down with the Kubota L5450. Complete the coupon for the facts.



**IOG STAND 52-54**

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THE POWER THAT LEADS

**Flexible. Budgetable. Available.** Like all Kubota machines, the L5450 is available through Kubota Flexiplan, which offers low cost rentals from two to five years and which can include comprehensive maintenance plans, breakdown cover and replacement machines.

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# GREENKEEPER

*International*

In times of imposed water restrictions and drought orders, the need for greenkeepers to practice water conservation is paramount. The following eminently sensible advice is taken from a current information leaflet published jointly by the British Turf and Landscape Irrigation Association (BTLIA) and the Sports Turf Research Institute (STRI), Bingley, W Yorks BD16 1AU.

The information will also serve as an additional guide for your green committee, the better that they may understand the problems water shortages present in undertaking intelligent golf course maintenance practices. Cut out this page and display in a prominent position.

# WATER CRISIS

**G**ood maintenance practices will encourage the development of a vigorous healthy sward with a deep rooting system, which will be able to withstand the effects of drought better than a weak sward.

It is essential that irrigation systems are properly maintained. Servicing and repairs should be carried out during the winter months so that the system is working efficiently on starting up in spring. Check for leaks. Ensure that efficient use is made of all available water sources on the course.

#### **Whilst limited water is still available**

- 1 Make sure your watering system is working efficiently. Check sprinkler arcs, nozzles, etc Water only essential areas.
- 2 Do not water during the day.
- 3 Reduce the frequency of watering and water more thoroughly each time, to get moisture well into the soil.
- 4 Do not allow puddles to form or surface run-off to occur.
- 5 Improve infiltration of water by spiking (not slitting) or with wetting agents, particularly where thatch is serious and on high spots. (High spots may require a hand-held hose, perhaps with attachment for wetting agent.)
- 6 Wetting agents are usually most effective

if first applied in late spring with additional applications through the growing season, according to the severity of the problem and water availability. Water in after application, to avoid scorch.

- 7 Raise the height of cut. Where appropriate, return clippings (cuffings) to help to act as a mulch.
- 8 Mow fine turf with pedestrian machines.
- 9 Reduce the frequency of mowing as growth slows down.
- 10 Spread light applications of compost top dressing on golf greens and similar fine turf areas, and work in gently with a mat.
- 11 Keep pin positions to the margins of golf greens.
- 12 Reduce wear on turf by varying position of pathways and closing off sensitive areas.

#### **No water available**

When all watering is banned continue with points 7-12 as conditions dictate.

- 13 Do not apply pesticide or fertiliser.
- 14 Stop verticutting or grooming on golf greens and similar fine turf areas.
- 15 Do not carry out any aeration work.
- 16 On small areas of newly established seed or turf, use perforated plastic sheet or netting to conserve moisture (but beware heat stress under covers).

17 Be prepared to close golf greens or similar areas to avoid long-term damage which will require costly reinstatement.

#### **After the drought**

- 18 Reinstatement any severely damaged areas as soon as conditions and water availability will allow.
- 19 Wetting agents can be used to help with re-wetting of drought-damaged or water-repellent turf.
- 20 After the immediate problems have been dealt with it may be necessary to revise the management strategy, to minimise future problems. The following points should be considered:
  - Alleviate compaction to encourage deeper rooting and water infiltration.
  - Eliminate excessive thatch by a combination of scarifying, hollow tining and top dressing with sandy compost
  - If possible, manage turf to favour drought-tolerant species and to develop deep root systems.
  - Update the irrigation system to improve efficiency.
  - Investigate alternative water sources: it may be possible to intercept and store surface water to boost reserves
  - Increase the water storage capacity.

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# REINFORCEMENTS

As sure as night follows day, greenkeepers can expect those bare areas which have received harsh treatment in the latest of several drought summers – areas shredded by spiked shoes, slashed by hackers and pounded by pull-carts – to turn in winter to a sea of glutinous mud, taking merciless and seemingly irreparable extra punishment and, no matter how skillful the renovation, effectively transforming them into 'no-go' areas.

Of course, the pundits will tell you to re-route, to ban pull-carts, even dare to suggest the use of that dreaded golf apology – the temporary mat. But nothing short of dynamite will stop the lemmings, who will always follow the shortest route, pacing and posturing like pro's once they arrive. It is feet, clubs and wheels which cause golf course damage, aided and abetted by sun, wind, rain and burrowing animals. No course is totally immune.

Seeking remedies, I've turned to the wizards of modern technology for information of the ingenious systems which will provide more than mere temporary relief. Greenkeepers can be assured that help is at hand: there is a better answer than banning winter golf altogether!

To begin, I asked Tim Fell to expand on the use of Tillers Fibreturf, which I knew had won approval in the soccer world and which Walter Woods had specified on the Old Course at St Andrews. Tim commented:

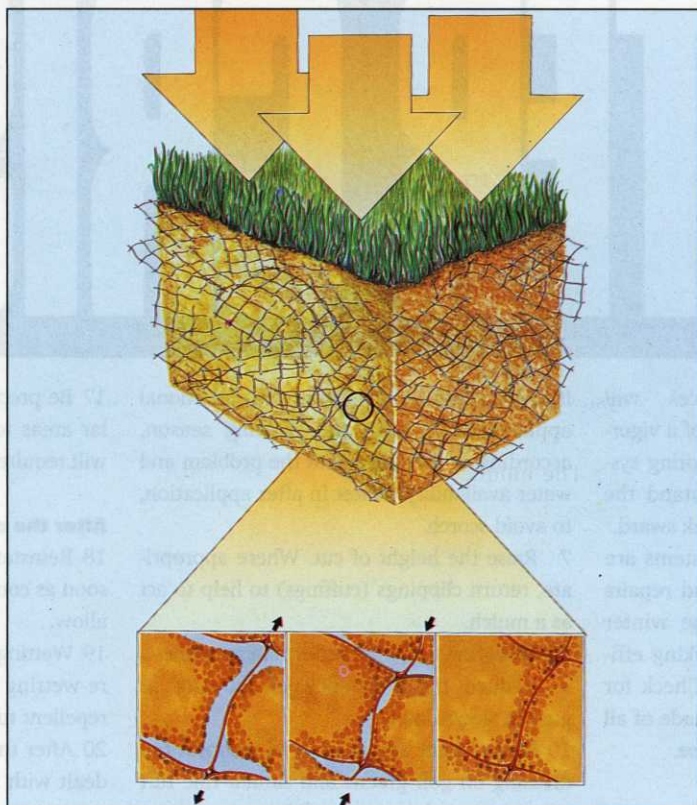
"Healthy roots are the key to healthy plants. Compaction and divoting are two common factors on golf courses which act to limit root growth, leading to poor quality turf-grass surfaces. The objective of rootzone reinforcement, as far as turfgrass quality on tees and aprons is concerned, is to reduce compaction and divoting. In other words, we're in the business of root protection.

Rootzone reinforcement will not prevent the temporary destruction of leaf on the surface under severe wear. What it will do is protect the root mass underneath and retain soil structure, so that regrowth is rapid. Roots will suffer when the rootzone is compacted because the air has been squashed out – and roots need air to survive. Divoting causes physical destruction of roots by shearing. Sports rootzone reinforcement systems should, therefore, aim to address these two problems.

In the development of Fibreturf we decided to copy nature by mixing polypropylene fibres (artificial roots) into the rootzone. The fibres themselves are 35mm long, and



Erosion problems at Sceptoft Golf Club. The pictures show the appalling state of a high wear area and VHAF carpet being installed below the surface, through which natural grass will grow. Photographs courtesy of Notts Turf



As the turf is trafficked, mesh elements flex to create and maintain air voids around the Netlon filaments. The flexing action ensures that the rootzone remains healthy and does not suffer from soil compaction

similar in diameter to grass roots. There are approximately 80 million fibres per cubic metre of rootzone. Polypropylene is not affected by rain, sun, fertiliser or herbicide, and is therefore rot resistant and very long lasting.

Soils become weak when they are wet. Weak soils are prone to compaction, and that is why a free-draining rootzone is essential to maintain sportsturf quality. The use of high proportions of graded sand in rootzone mixtures gives the required drainage characteristics, but sand has the inherent disadvantage of lacking structural strength. You only have to grab a handful of

dry sand to see what I mean. The result of this structural weakness is most easily seen on short hole tees where divot damage from irons can be severe. The three-dimensional structural effect of the fibres further enhances the ability of the rootzone to resist compaction.

The fibres in Fibreturf physically prevent the club blade digging into the tee surface and chopping out deep divots. By retaining the root crowns near the surface of the rootzone, regrowth from surface scarring is rapid.

Rootzone reinforcement generally gives a very firm surface, even under wet conditions, and load

bearing characteristics are greatly increased. This feature is being used to good effect on heavily used paths and tracks on golf courses. Fibreturf is currently being installed on the pathways between greens and tees at the new Moatlands Golf Club, Kent.

Fibreturf has proved itself in football goal mouths – probably an area of sportsturf that gets more wear and tear than anywhere else. Alan Ferguson, grounds manager at Ranger's Ibrox stadium, has found that Fibreturf has given him flat, dry and clean goal mouths throughout the season. For a town that gets 40" of rain per year, most of which falls in the football season, Alan feels that Fibreturf has performed exceptionally well. By the nature of reinforced rootzones, they are more difficult to handle than normal rootzones. In particular, getting a good level on tee surfaces can take a long time. I have always felt that the use of these materials would be restricted until an easier way to handle them had been found. It is, therefore, good news that we have found that the BLEC rotary sandraker gives an excellent finish to the tee surface in a very short time".

I well remembered the enthusiasm Woburn's Neil Whitaker displayed when showing me his Netlon tees last January. I'd also seen a very convincing demo at Stoneleigh, so to get the technical low-down I turned to Gordon Rolph, Netlon's national sales manager. He provided this information:

Netlon Advanced Turf is a patented rootzone system which gives vastly improved resilience, durability and health to natural grass. It consists of thousands of small pieces of polypropylene mesh, the size of playing cards, randomly blended with a selected rootzone media to form a deep, anchored root system. This stabilises and reinforces natural turf, leading to



## Netlon Advanced Turf

# For healthier, more durable turf



1

INCREASES  
LOAD BEARING  
BY UP TO  
500%

2

INCREASES THE  
RATE OF  
DRAINAGE BY  
UP TO 20%

3

REDUCES DIVOT  
SIZE AND  
RECOVERY TIME  
BY UP TO 50%

4

INCREASES  
BALL BOUNCE  
CONSISTENCY  
BY UP TO 400%

5

INCREASES  
RETAINED  
MOISTURE  
CONTENT  
BY UP TO 40%

Netlon Advanced Turf is a rootzone system bringing unrivalled resilience, stability, durability and health to natural grass.

The unique reinforced rootzone allows the natural turf areas to withstand far greater use than ordinary turf.

Already in use in many golf courses, Netlon Advanced Turf gives a better wearing, more attractive surface. All forms of deep aeration techniques can be virtually eliminated as Netlon Advanced Turf's self-cultivating action ensures that the rootzone resists soil compaction and remains healthy.

**Suitable for tees, greens and walkways, Netlon Advanced Turf means lower maintenance costs and greater course usage – saving money whilst generating additional revenue.**

**Netlon Advanced Turf – happier golfers, contented greenskeepers.**

For your colour brochure ring Emma Burns on 0800 585012 or return the coupon.

# Netlon

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Rootzone technology – stronger by nature

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# REINFORCEMENTS

reduced divoting and a much greater resistance to heavy usage, whilst damage recovery time is halved. As a result, a top quality playing surface is possible year round. The unique properties of the mesh elements resist soil compaction. Problems such as black layer and poor infiltration are significantly reduced and the need for deep aeration is virtually eliminated.

The benefits of this system are being acknowledged by greenkeepers worldwide – particularly in the USA. Indeed, it was here in 1984 that the potential for the mesh system was first recognised by Dr James Beard of Texas A&M University. Dr Beard's studies commenced in 1985 and identified a number of important properties, including damage resistance, accelerated damage recovery, increased infiltration which is maintained long-term, enhanced moisture retention and greater ball bounce consistency. After four years of monitoring plots, Dr Beard identified the 'self-cultivation' action unique to Netlon Advanced Turf rootzones. He found that when the turf is compressed, the mesh elements act as thousands of springs. This flexing resists compaction of the soil and ensures aeration to the full depth of the rootzone – leading to a healthier, more resilient turf. The research at Texas A&M has been continuous over a seven year period and the latest work has demonstrated the benefits of mesh elements in a wider range of rootzones.

The improved playing qualities and enhanced infiltration rates have been confirmed by studies carried out by Mike Canaway of the STRI. Netlon are currently funding further research by STRI, specifically related to golf applications.

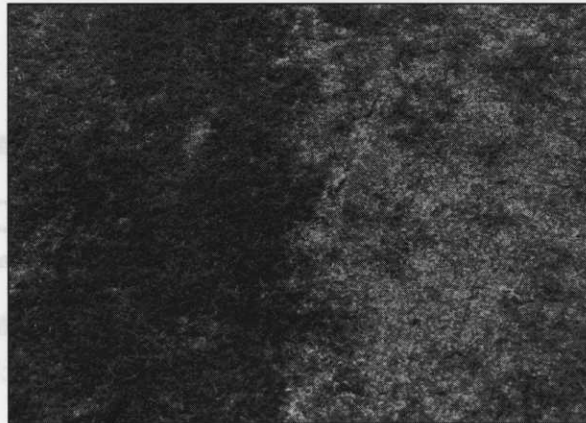
Meanwhile, a three year research project at the University of Strathclyde found that Netlon Advanced Turf's reinforced rootzone greatly improves load-bearing capacity. The increased strength was shown to be due to the interlocking of soil particles into the mesh apertures to form a composite reinforced soil. A full range of tests showed that the system can successfully support heavy loads, such as large vehicles; and resists deformation such as rutting. The research is continuing, investigating the damage resistance of various constructions which incorporate Netlon mesh elements in a USGA rootzone soil.

Many courses in the UK have already installed Netlon Advanced Turf on tees, pathways and greens. Apart from offering a consistent playing surface, it is proving particu-

larly useful on problem areas which receive heavy usage or are in the shade.

For example, at King's Norton, a badly worn walkway between the first green and the second tee had become an eyesore. After it had failed to respond to re-turfing, draining and spiking, Netlon Advanced Turf was installed. The walkway has now withstood sixteen months of heavy usage and is still in great condition. Plans are being made to extend the system into other worn areas.

Meanwhile, at Barnham Broom, Netlon Advanced Turf has been installed on four of its hardest worked tees. "Wear has been reduced and recovery time is much quicker," reports Brian Lemon. "My staff no longer have to spend time on spiking, slitting and tining the relaid tees. Members have also commented on how the tees have remained level and easy to drive from, despite heavy wear throughout the winter."



**Snow mould and general distress coming to an abrupt end where Tildenet has been laid**

Netlon Advanced Turf is clearly a very effective system. In the words of Dr Beard: "The bottom line is better turf rooting, more healthy turf".

*The more I looked into the field of turf reinforcement and erosion control materials, the more optimistic I became. For more than a decade greenkeepers have tried laying down PVC matting that looked like green chain-link fencing, on or just beneath the surface of hard-pressed areas, with minimal success. It was, if anything, only marginally better than nothing at all and did little to convince the greenkeeper to continue with such products. But as has already been seen, hi-tech is on their side and one such new development is the Notts Turf VHAF patented system, an erosion control system that has brought forth enthusiastic endorsements. Here are T H (Bert) Patrick's comments, along with some interesting statistics:*

Several products have been introduced into the golf course business,

but as yet none has caught the imagination of the game to the extent that Clubs are prepared to tackle the problem by investing hard cash. A number of British companies have spent large sums on R&D during the past decade into soil stabilisation, though the golf world has been slow to take these products on board compared to other sports and areas of environmental importance.

To fully understand the need for market research in golf with regard to problems of erosion, particularly over-trafficking, it is necessary to see how the game is developing. Unlike most other sports, golf attracts a wide spectrum of players, all with different requirements.

Golf, contrary to the image that it is a game for the better-off and the elderly, now caters to an age group averaging out at 26.6 years, which is much younger than the former age of the regular golfing population of 40.2. Much of the present demand comes from the new, inexperienced golfer. One can identify

League Pitches Committee gave consideration to a variety of products and asked the STRI to carry out trials. Jeff Perris, the Institute's assistant director, believes that whilst there have been significant improvements during the past 25 years, there are problems of goal mouth and centre spot erosion, along with linesmen's tracks. Of the products tested by STRI, Perris has told the League Committee that the Notts product, VHAF, was ahead of others. Notts Sport VHAF was installed at Luton Town's pitch when the synthetic grass was taken out last summer. It has been used on the heavily eroded Pennine Way and around the whole of Stonehenge. Unfortunately, golf has been much slower in getting its act together despite erosion problems and the example of successful applications outside the golf course.

Practically every course in the country is showing ugly patches of heavy wear and soil erosion. Bob Moreton of The Berkshire says that from his experience heathland and links courses in particular suffer badly from erosion – "Once golfers have cracked the surface you immediately start to lose soil", he explained. Derek Ganning of The Belfry admitted there are areas on his two courses that always create a problem through heavy traffic and use. "The ground reinforcement materials offer an interesting way of repairing these areas", he said.

VHAF is a patented system that stabilises soil and sand particles using a fabric manufactured by the needlepunch process. This provides a three dimensional material which is flat on one side and the pile structure on the other. The direction of the fibres is vertical, horizontal and angular, hence the name VHAF. In turf culture VHAF can be described as a method of stabilising particles, particularly soils and sands, enabling a grass plant to grow within a medium which is supported by fibres. It offers protection to the lower portion of the plant, protects the root system from direct foot and other traffic and in certain situations it helps to conserve moisture below the structure. Above all, it stabilises particles.

Its greatest property is its ability to preserve an even surface which makes it suitable for a wide range of applications on golf courses. The system can be installed on level or undulating ground as well as banks.

It is best laid onto a prepared seed bed and after further seeding and top dressing, a healthy sward can be established. With the root system now protected by the fabric, most of the grass will recover after

around 4 million potential users of pay and play courses -those you will spend £10-15 per round. Even if only 20% of these were to play 20 rounds per year, that would fill a further 320 courses to capacity, assuming that one course can only cater for around 1000 regular players.

Many local authority planning committees are dealing with an avalanche of planning requests for golf facilities, of which a good percentage are on hold because of the recession and high capital costs of development. This is placing great extra strain on existing facilities and thus a major reason for erosion deterioration on heavily trafficked areas by golfers. No one likes to walk a course which is littered with erosion black spots.

In football there has been much press comment on the state of some pitches, which mid season resembled mud heaps and obviously give concern to the authorities. The

damage, thus reducing maintenance by the green staff. Normal maintenance is required and the ground reinforcement material can be cut and spiked in the same way as unprotected grass.

VHAF can be used either with a natural grass sward or as a synthetic turf, which ever best suits the particular need. Used as a reinforcement material, a grass sward is cultivated in the fabric creating a natural appearance. On the other hand, used as a synthetic turf, routine maintenance is eliminated which makes it ideal for replacing materials used on pathways or steps. In each case the VHAF fabric distributes the load caused by golfers over the soil structure below, enabling a true surface to be maintained even in the highest used areas.

*Of course, all golf courses have their own peculiar attractions and problems and one such course, Golf du Pont d'Arbois in Megeve, spectacularly situated in the French Alps, has a reverse side to its coin, which is that the course, and more importantly the greens, are skied over each winter, taking months to recover from the damage.*

*The main agents of destruction are the tracks of the piste-bashers, the effects of compaction of snow under the constant pressure of skis, and, not least, snow-mould, a disease which damages grass, leaving unsightly bare patches.*

*After such punishment re-seeding is often needed, for until new grass has been grown, the course is unusable. This was a situation with which the Bristol-based company Tildenet found itself ideally equipped to cope:*

Tildenet's products are used in a wide variety of ways. In sport they have been found particularly valuable in protecting playing surfaces against frost – the majority of Scottish Premier League soccer clubs use it successfully, as do Leeds United, Chelsea and West Ham, while the



**Detail showing bonding of Enkamat to the soil with the vegetation's root system**

Rugby League now recommends it.

An equally important use is as an accelerator of seed germination. In this area cricket groundsmen, whose pitches take a tremendous hammering from spiked boots, have found Tildenet a vital ally, among them Mick Hunt and Roy MacLaren, head groundsmen at Lord's and Worcester respectively.

When Golf du Pont d'Arbois agreed to a demo of their product on the golf course itself Tildenet recognised the size of the challenge. The versatility and all-round capability of the matting would be under the microscope: its ability to protect turf from frost, snow and regular pounding from skiers and piste bashers; followed by proof of its power to accelerate germination significantly. The results of the test were extremely impressive.

Tildenet use matting of specific gauge and weave which not only doubles the speed of germination but also ensures evenness of growth by protecting newly-seeded areas from the effects of wind and the attention of birds.

With the recovery period now reduced by up to two months, Alpine clubs can expect significant financial gain, for possible playing and earning capacity has been increased by 25%.

The problems confronting Tildenet at Bidford-on-Avon, where a new course is being constructed, were very different. Here, difficulties were being caused by a combination of light, sand-based soil and prevalent strong winds. Though the greens were sown last autumn, there was scarcely any growth, due to the wind which continually

whisked away seed and soil together. In this case the dual qualities of Tildenet Germination Sheets were immensely effective. The laying of the mat over the seeded area provided vital protection against the effect of the wind and predators. At the same time the periods of germination was being greatly reduced, helping to make up time lost over the winter. Head greenkeeper, Dave Hemming informed that the period between sowing and first mowing was only 10 days.

Successful as these operations have been, Tildenet seek to improve and modify their range of products, and to this end they work closely with the STRI, whose confirmation of the efficiency of different types of matting by scientific testing has proved invaluable.

*Finally, I talked to Mike Cooper of MMG Civil Engineering Systems Ltd, a company which specialises in reinforcing 'difficult' areas such as steep slopes, ponds and river banks. I was reminded of the collapsing tee at Muirfield, caused by rabbits burrowing. Mike talked of the specific use of geotextiles in golf by saying:*

*"Geotextiles specially developed for turf reinforcement offer greenkeepers plenty of opportunities to use environmentally acceptable products to overcome many of their soil erosion problems in a cost effective and often very straightforward manner.*

When light duty turf reinforcement is called for, perhaps on steep slopes, road bunkers or in ponds or watercourses experiencing low flow velocities, Enkamat three-dimensional polyamide matting can be used. Enkamat is designed to

encourage strong grass growth and together with the roots it acts as a permanent and natural protection against erosion.

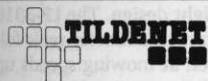
In locations where grass establishment may prove difficult, or where a Club may prefer an immediate natural green appearance, pre-grown Enkamat reinforced turf - Enkazon - can be installed. Since Enkazon is grown to order it gives the greenkeeper the opportunity to be involved with the selection of the grass seed mixture best suited to his application.

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The stabilisation of steep slopes, cliffs or earth walls can also be achieved using various different geotextiles and the suppliers of Enkamat, MMG Civil Engineering Systems Ltd., complement its product range with design advice and field support to maximise the benefits of their geosynthetics".

● **The editor acknowledges assistance in preparing this feature from Tillers FibreTurf (0652 650555), Nettleton Limited (0254 262431), Notts Sport (0533 720222), Tildenet (0272 669684) and MMG Civil Engineering Systems Ltd (0553 617791).**



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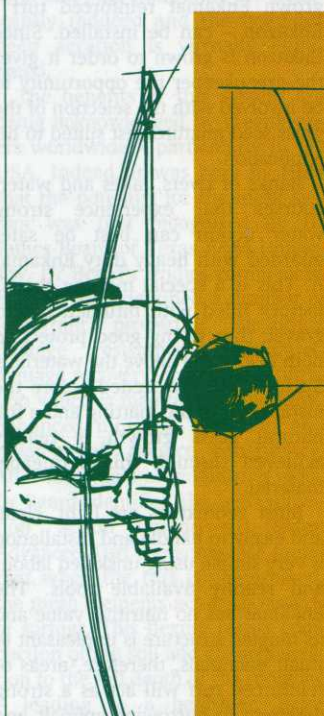
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## TRADE TOPICS

■ A specialist advisory service has been launched by Nomix-Chipman, designed for those carrying out amenity weed control programmes. Known as the Nomix Environmental Weed Control Advisory Service (NEWCAS), it has been set up in the light of growing uncertainty over the future use of residual herbicides.

Established to help local authorities and businesses balance the competing pressures of environmental protection, budgetary limitation and operator safety in practical and effective programmes, it comprises a telephone hotline and regular updates on legislative, herbicide and application developments. NEWCAS also offers tailor-made weed control programmes and NPTC training courses.

Particular advice on the replacement of triazine mixtures as the preferred choice for controlling weeds on hard surfaces is currently available, with several alternative options being recommended. Tel 0272 574574.

■ British Seed Houses Ltd have produced a new catalogue covering amenity grass seed mixtures, fertilisers and wild flora conservation mixtures. The BSH Wild Flora Brochure carries full details on seed bed preparation, sowing and management. For the golf course, the company offers a 'Cornfield' mixture suitable for sowing on golf roughs and containing low growing species which will enhance the appearance of the rough, the ideal place for encouraging wild flora and fauna. For catalogues 'phone 0925 54411.

■ The Amenity Grass Marketing Association (AGMA) has produced an expanded edition of its Grass Variety Merit Rating List for 1992. The recommendations are based on the suitability of different cultivars to specific end users, with the varieties grouped under typical application headings. The information will be updated annually and the performance data will include reliable trial information from both the UK and relevant continental sources where similar climate and usages apply. AGMA say this will not only broaden the range of information on cultivar performances but also introduce a measure of stability in assessments. Free copies from AGMA, PO Box 14, Boston, Lincs PE21 7QL.

■ Rhone-Poulenc have just updated their product manual. Details on their complete range of controlled droplet application products (no dilution with water prior to use) are included for the first time.

Equipment, such as the Lancelot spray has been included along with Datachem, a computer programme containing all the information on calibration, legal aspects, record keeping, product usage, disease identification etc.

The product manual is available from Rhone-Poulenc distributors or contact their helpline: 0277 301114.



■ Jacobsen is introducing its new LF-mower, (above) combining high productivity with a superior cut, all in a lightweight design. The LF-3810 delivers a wide 115 inch cut. Its 10-blade, seven inch diameter reels follow undulations precisely to as low as 3/8", even at mowing speeds up to 7.5 mph. The mower's exclusive SynchroLift™ cross-cutting feature quickly raises all five reels with one pull of the reel control levers, for easier, faster cross-cutting of fairways. A 38 hp diesel engine powers the LF-3810. The engine is isolation mounted between the front drive wheels. The frame and engine configuration allows easy access to the center reel. The LF-3810's combination of horsepower, high torque reel motors and large reels cuts the heaviest growth easily, with more than enough power for scalping or verticutting operations.

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# AROUND THE GREEN

## Keeping in touch with news and comment from the regions

### DEVON & CORNWALL

The Section would like to express its gratitude to PJ Flegg Ltd and Devon Garden Machinery, our main Iseki dealers, who once again provided transport and breakfast for members who played in the 1992 Iseki regional final, which was held at the splendid setting of the Isle of Purbeck GC. Our congratulations to Lauchlan Millar and Richard Hall who came second in the O-9 section, also to Dick Parr who finished third in the 19-28 section. We wish them all good luck in the final.

As defending section team winners, the boys battled hard to once again lift the prized shield, but were beaten this year by the very strong South team. Our thanks and good wishes go to Ed Simcox, 'Mr Jacobsen' in South West, who has recently left the area to take up the position of groundcare manager at Oakleys in Shrewsbury.

I have just finished finalising upcoming section meetings and look forward to meeting you all during the coming season, the dates of which are as follows: Oct 14th at Dawlish Warren for the DO Hunt Trophy, speaker to be arranged. Nov 11th at China Fleet for the Toro Trophy, followed by our AGM. Dec 9th at Oakhampton for the PJ Flegg Trophy, followed by comedian Tank Sherman. Jan 13th at Fingle Glen for the Devon versus Cornwall match, followed by speakers Jim Arthur and Nick Rigden. Feb 24th at Perranporth for the Avoncrop Trophy, followed by speaker M Jones. March 24th at Woodbury for the Supaturf/M&B sponsored event, speaker to be arranged. July 7th at Launceston for the Jacobsen Trophy, followed by speaker David Golding.

RICHARD WHYMAN

### KENT

Just a few things to report this time. Firstly some rather sad news about the recent death of Cecil Maidment, the former head greenkeeper of Bexleyheath. Cecil joined Bexleyheath from High Barn, near Worthing, in 1953. He was not only head greenkeeper in his early years at Bexleyheath, but was also the Club steward, carrying out these duties with his wife. He was also a very good player, playing off a 7 handicap for many years and was well known for the help and instruction he gave to young junior golfers at the Club. He retired as head greenkeeper in 1985, but still enjoyed pottering about on the course, doing odd jobs on a part time basis and regularly acting as the starter for Club competitions. He also continued with other gardening jobs well into his retirement and it was during such activity that he sadly passed away. He was one of the great old characters of the game of golf and greenkeeping, active until the last and highly regarded by all the members at Bexleyheath. He will be sorely missed, but always remembered.

A few dates for your diaries for forthcoming events. Although we had originally hoped to have the Autumn Tournament at Mid-Kent it appears there was some confusion and the date double-booked, so now the Kent Autumn Tournament will be played at Holt. The date advised to me is 15th October, but I am sure you will receive more information by post nearer the time.

Two regional events are the Regional Tournament to be held at Wanstead GC on October 6th, and The Regional Seminar at the Colchester Centre on November 2nd. Obviously the organiser of these events at a regional level has a current fetish for Essex, what with the Iseki qualifier at Chelmsford as well, but next year I understand that the Regional Iseki qualifier will be in Kent, so eighty pence saved each way at the Dartford crossing next year!

A personal thanks and a plug for Howard Evans Financial Services, the man who is the special financial advisor to BIGGA. As some of you may know, I am in the process of moving house, a traumatic experience at the best of times, but I have received great assistance from Howard. I know a number of greenkeepers in Kent and the South-East have also gained from his expertise on many financial affairs, so do not forget that his services are offered to you free as members of the Association - a definite plus included in your membership package. Advertisements for his services regularly appear in the magazine so why not give it a try - his office number is 0792 791179.

PAUL COPSEY

### SOUTH WEST

Avoncrop Amenity are the generous new sponsors of the annual match against the South West secretaries. Not only did Avoncrop provide prizes and a brand new trophy, but also laid on transport for our team to travel to the Launceston GC in Cornwall for the match. Unfortunately, even with all this VIP treatment, the actual result of the match was a dismal defeat for our side and we left the secretaries toasting a rare win. This slice of bad luck did not detract from the day out and our thanks to Launceston GC for hosting this match on their fine course and to Rod Feltham, 'Mr Avoncrop', for his generosity.

Of course, it's not been all doom and gloom for the section players recently, thanks to some brilliant play from Jon Leigh, Simon Montacute and Paul Thorn in winning their handicap categories down at the Iseki Regional Final, with the South West walking off with the team prize for the first time. Well played all.

I reported last month on Laurence Pithies' move from Minchinhampton GC. Well, it's an ill-wind as they say, for I am leaving Lilley Brook GC, Cheltenham, to take over from Laurence at Minchinhampton - now there's a tough act to follow! Through the pages of this journal, I would like to thank Lilley Brook staff, committee and members for happy times and for being such a super Club to work for - I wish them well for the future.

PAUL WORSTER

### EAST MIDLANDS

This month I would like to pay a tribute to initiative. A strange sight has recently been seen at Mickleover Golf Club - namely the head greenkeeper, Peter Downing, crawling around the course on his hands and knees listening to the ground like a lost Apache. Apparently, Pete has found that by connecting up the course irrigation

wiring to his car and starting the engine, an audible signal passes down the line, and where the signal stops, breaks can be identified and repaired. Well worked out, Pete! Who needs hi-tech equipment anyway?

The East Midlands Pairs Knock-Out this year has been won by Anthony Bindley and Martin Hopkins of Kirby Muxloe G.C. Congratulations to them both and commiserations to Dave Flavelle and Alan Bayley, the runners up.

I have a couple of dates for you to note. The Autumn Tournament this year will be held at Willesley Park on Monday 7th September and entry forms will be sent out shortly. Also a date has been fixed for the Annual Regional Seminar which will be held on 25th November at Warwickshire College of Agriculture. I trust this will be well supported in the usual way by the East Midlands section.

Finally, welcome to a new member, Maurice Barnes, who is currently studying at Broomfield College.

TONY HOWARTH

### BUCKS, BERKS & OXON

Question: What is guaranteed to bring on rain in the middle of a long hot summer? Answer: A BB&O golf day at East Berks GC! As luck would have it, that's exactly what happened. Out of the clubhouse trotted our fine members and down came the rain, but did it dampen the spirits of our merry band? Certainly not! They still managed to put together some fine scores with top of the pile being Andrew Ryan of Ellesborough with 32 points on count-back from John Bevan of Frilford Heath. In third place was Pat Wheelerhan with 31 points and he also won the prize for nearest the pin, just 39 inches away.

Question: Who eats raw meat, can drive the ball 305 yards on a wet day to win the longest drive and lives at Calcot Park? Answer: Simon Robinson - which comes as no surprise to anyone who has played with him (only kidding Simon). Thanks from the section to Mark Piggot, the headman, for a quite stunning course and to the secretary, members and catering staff of East Berks GC for allowing us to play and for feeding us so well (a particularly important part of a greenkeeper's golf day!). Last but by no means least thanks to Sta-Brite, Rigby Taylor and Maxwell Hart for their continued support in these difficult times. Thanks also to Roy Kates, our national chairman, for presenting the prizes - even though we still await the arrival of the phantom red jacket with bated breath. Maybe next time Roy!

A couple of reminders for your diary: Our Autumn Invitation meeting is at Burford GC on 8th Oct. If you would like to play, please reply promptly (ie. as soon as you receive your entry form) as there are only a limited number of places available for this very popular event. Also, if you have entered the Rigby Taylor Knock-Out Tournament may I remind you that the finals are at Frilford Heath on Oct 16th. If you know now that you cannot make it, please let me know in order to avoid unwanted hassle nearer the time.

RAY CLARK

## SURREY

A fine sunny day saw the Cresta Cup return to its traditional venue – the New Zealand GC – on June 8th. Dave Wyborn beat Ronnie Christie on a count-back with 36 points, with Paul Weston third and Brian Wilmott once again taking the trade prize. Thanks were extended to David and Marilyn Johnson for the preparation of the course and buffet respectively, and to New Zealand Artisans Club for the use of their facilities.

Unfortunately, despite a good attendance of 38 players, less than 20 players had applied by the entry closing date. As you must all be aware, Clubs usually extend the generosity of courtesy of the course, and caterers especially need to be aware of numbers in advance. As entry forms are always available well before an event, it is vital that members plan their golf in the same astute manner as they plan their work – late entries may well have to be refused in the future.

An event taking place in August is the McMullan Tankard at Sunningdale GC on August 6th (probably this should read 'which will have taken place' by the time this magazine reaches you), and the Parkers Salver takes place at Surbiton GC on September 24th (entries close Sept 11th).

Finally, would all members who have recorded good scores in regional events recently please check their very latest current handicap with Robert Hook. It is the duty of every golfer to play off a correct handicap at all times.

ROGER TYDEMAN

## MID ANGLIA

The first round results of the Lodgeway Four-Ball Tournament are as follows: R McKeown and K Bunting beat D Mathews and S Mason by 5 & 3, B Piggott and C Wright beat D Piggott and I Jones by one hole, C Brook and E O'Hanlon beat T McCreadie and M Hall by 4 & 3, A Grew and G Boulton beat P Robinson and N Primett by 8 & 7, S Boyes and J Whiting beat T Stanton and R Laurence at the nineteenth. P Simmons and J Wells beat P Lockett and R Cougan by 3 & 2 and D Croxton and I Oliver beat G Bruce and G Smith by 2 & 1.

Lectures and golf meetings are currently being arranged for next year, with the Spring Tournament scheduled for Mid Herts GC and the Summer Tournament at St Neots. Dates will be confirmed later. The 1992 Autumn Tournament will once again be held at Woburn GC, again subject to confirmation. A match against the London section will be played at Porters Park GC later in the year and there is also a possibility of a week long spraying course being arranged in the autumn, when greenkeepers can take both PA1 and PA2 tests. Details, once confirmed, will be available shortly.

PAUL LOCKETT

## NORTH SCOTLAND

Section members should note that application forms for the one day conference at Dundee in November will be dropping on their doorsteps later this month, shortly before they go around Scotland. Early booking is advised for what we are sure will be a very interesting and successful day.

Flying the flag for the North at the Scottish Championships at Kingsknowe were the Peterhead pair – Kevin Peace and Hugh McLatchie – who won the scratch and third class handicap sections respectively, along with Gordon Moir of St Andrews, winner of the Head Greenkeeper Trophy – Well done, lads. This was the first 'Scottish' I had missed since 1982, though I understand the main talking point of the day was not golf – rather the mysterious illness that has befallen our chairman Dougal, which has meant his taking the drastic measure of giving up the drink. We all hope for his rapid recovery, as do all the pubs in the vicinity of Westhill!

This year the North Golf Union has set up an order of merit, with certain 'Open' events in the

# AROUND THE GREEN



area having points awarded for high finishes. At the time of writing (June 30th), greenkeepers George Paterson (Fortrose) and Stevie Macintosh (Muir of Ord) are in first and second places.

Congratulations to Gerald Stewart on his promotion to head greenkeeper at Montrose, and a welcome to another Montrose man, Gary Tough, our newest member. Rounding off a trio of Montrose happenings, Steve Macdonald is leaving Montrose for a similar job at a course in Amsterdam – we wish him well.

Next month our autumn outing will be held at Kingussie, so get your entries back as soon as you receive them. For those who have not played at

Kingussie, I can tell you that it is highly enjoyable with some lovely holes, especially the par three's – as for the fourth, getting on the green in two is a major achievement! I am expecting a good turn-out, so enter without delay.

AIN MACLEOD

## NORTHERN

As most of you are aware, I am new to the position of section secretary/reporter, having taken over from former secretary, Bob Lupton, who has been promoted to higher places as regional administrator. We wish Bob well in his new venture.

As I am new, I would like to hear from any members with any constructive ideas, news or any suggestions that they think will benefit the section or BIGGA. Please contact me by writing to 49 Cornwall Road, Gilstead, Bingley BD16 4RL, or 'phone me on 0274 568128.

Presidents Day at Bradford GC was played in rather showery weather but this did not deter our stalwart members. The results were: Div. 1: 1st M Lealman, 2nd D Collins, 3rd M Hannan. Div.2: 1st T Jarvis, 2nd M Bryant, 3rd C Garnett. The Jubilee Cup was won by L Kirkbright and the best visitor was P Marshall. Highest scores were achieved by D Thackray, A Smith and B Carr. Congratulations to you all.

On behalf of all who attended I would like to thank our president, Bill Mountain, for his hospitality and continued support for our section. Our thanks also to Ralph Smith, D Thackrey and their staff for a first class course and also to the secretary and committee for so kindly allowing us courtesy of the course.

There are still a few places left for our golf competition at Scarborough South Cliff on Wednesday September 30th. if you require an entry form please contact me. The event is being kindly sponsored by John Chaplin (Machinery) Ltd. Roseville Road, Leeds.

Just a reminder to members that the very popular management courses at Aldwark Manor get under way in October and November. If any member is apprehensive about going on these courses, be they young, old or even middle aged, I can assure them that they will be pleasantly surprised. The professional tutors make listening an enjoyable pleasure. Don't forget also that there are no tests or examinations at the end of the courses.

The winter lectures are still in the process of being formulated – more details later.

Last but not least, I would like to welcome the following new members to our section: A Ger-

rard, R A Smith, C Dalby, R M Pilgrim, J Wood and S P P Drum. I hope they will all take full advantage of their membership by taking part in our section events.

PAT MURPHY

## EAST OF ENGLAND

The Eastern Region final of the qualifying rounds for the Iseki Competition was played in conjunction with our Purdy Machinery Trophy. This trophy was donated by Les Purdy when our section started and our thanks must be given for his continued support. Les joined us for the game this year at Belton Woods Country Club and stayed on for the meal and presentation in the hotel after play.

The course has now been open for two years and to quote our chairman, Graeme Patrick, "the hard work that has obviously been put in by Paul Cale and his staff over two trying years is now showing excellent results".

Competition on the day was fierce with close results. Michael Finney of Elton Furze GC was the trophy winner, followed by David Griffin of Belton Woods and Kevin Hodges also of Elton Furze.



COLIN SWINGLER

Members now through to the Iseki finals are Michael Finney, David Griffin, Kevin Hodges, C. Macdonald, D. Hornsey, G. Macdonald, P. Wright, M. Woods, D. Wells, G. Patrick, M. Macklin and J. Scotney.

## NORTH WEST

The Iseki Regional final at Bury GC on Monday June 29th proved to be a good day for the North-West section. Firstly, we had three qualifiers to go to the final at Coventry, and secondly, the North-West won the team prize, with each player receiving a small shield and 'yours truly' taking charge of a bottle of 'champers'. The course was in first class condition, thanks to Dave Berry and his staff, the weather was perfect and the standard of golf was good – followed by an excellent meal. Our three qualifiers are Bill Horvath, Ernie Stewart and Craig Wheeler and we wish them good fortune in the final.

On reflection, I suppose that apart from the BIGGA National Tournament this is the only time that members from all corners of our region get together, so let us hope the Iseki Tournament will continue for many years to come.

The next match in the N.W. calendar will be the Roses Match at Stockport GC on Friday August 28th. I will require a team of sixteen players, so if you are available please contact me on 051 724 5412. In the meantime I will be keeping myself busy at The Open at Muirfield and the National Tournament at Littlestone – I hope to see you there.

BERT CROSS

## EAST ANGLIA

Two events to catch up on, folks, so pay attention. The first was a lovely day out, sponsored by Fisons and Rushbrooks at Diss GC. Head greenkeepers and first assistants were invited, but I'm not sure which player from which group won. I think this was a first time in our section when a company (or companies) sponsored such an event and I understand the golf was followed by a superb meal and a short promotion by both Fisons and Rushbrooks. I hope it will not be the last and thanks to both companies for an excellent day.

Taking sponsorship one stage further – now that we have greenkeepers versus first assistants – we could have greenkeepers versus captains, greenkeepers versus secretaries etc. etc. Local companies, please take note.

The second event was in early June at Woodbridge, a nice part of the world. Unfortunately, there was what in polite circles would be called a 'slip-up'. Woodbridge have a limit on ➤ 62

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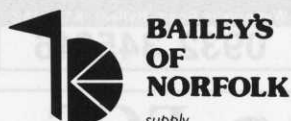
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# ASSISTANT HEAD GREENKEEPER

to join an experienced team.

Applicants should be City & Guilds qualified, have a sound knowledge of modern greenkeeping methods, including maintenance of machinery and irrigation systems.

The successful applicant should be capable of leading a team, after initial guidance from the head greenkeeper.

Salary negotiable, family accommodation available.

Send full CV to:

**The Secretary, Banstead Downs Golf Club,**  
**Burdon Lane, Belmont, Sutton, Surrey SM2 7DD**



## Broomieknowe Golf Club Limited

*invites applications for a*

# FIRST ASSISTANT GREENKEEPER

Applicants should have good experience in all aspects of golf course maintenance.

Only persons with the necessary drive and ambition need apply in writing with full CV to:

**The Secretary, Broomieknowe Golf Club  
Ltd, 36 Golf Course Road, Bonnyrigg,  
Midlothian EH19 2HZ**

## SUPERINTENDENT NEEDED IN RIYADH, SAUDI ARABIA

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**A qualified Golf Course Superintendent** is required to attend to a job in Riyadh, KSA. The job is a Par 3, 9-hole Golf Course for a duration period: August 1992 – August 1993, or as per job required.

**He should have:**

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6. Experience in maintaining Golf Courses.

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Fax: (010-966-1) 463-0380**

## Weston-super-Mare Golf Club

# COURSE MANAGER/ HEAD GREENKEEPER

A fully qualified and/or experienced person is required to fulfil an essential role as part of a progressive Golf Club Management Team.

The successful applicant will assume responsibility for all aspects of Course maintenance and development and will be expected to make a significant contribution to the Club in its commitment to bring to its full potential one of the leading Links Courses in the West of England.

The position will be salaried with an attractive employment package to be negotiated.

Apply in confidence with full CV to:

**The Secretary  
Weston-super-Mare Golf Club  
Uphill Road North  
Weston-super-Mare  
Avon BS23 4NQ**



*A new leaf in leisure*

## Epping Forest Country Club

*requires a*

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Salary negotiable based upon suitable experience, which should ideally comprise the growing-in of a newly constructed 18 hole course, knowledge of sand based greens and tees, and a sound understanding of automatic irrigation systems.

The ideal applicant should be able to advise on all aspects of golf course management which will include the interviewing and appointment of staff.

Interviews to be held early September for appointment in October 1992.

Please apply in writing with full CV  
by 1st September 1992.

**Mr P Pomfrett  
Epping Forest Country Club  
Woolston Hall, Abridge Road, Chigwell  
Essex IG7 6BX**



## Sundridge Park Golf Club

Bromley, Kent

# COURSE MANAGER - 36 HOLES

Following the retirement of the present incumbent, applications are invited for the position of Course Manager at this 36 hole private members' club.

Applicants must be fully experienced in all aspects of greenkeeping, staff and budgetary control with a minimum of 5 years experience as Head Greenkeeper at an established golf course.

The salary and benefits will be commensurate with this responsible position and a three bedroomed house will be provided.

Please apply in writing with full CV to:

Mr D Lowton, Secretary, Sundridge Park Golf Club, Garden Lane, Bromley, Kent BR1 3NE

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Box No. G181, BIGGA,  
Aldwark Manor, Aldwark, Alne, York,  
North Yorkshire YO6 2NF

# WORKING COURSE MANAGER



## Lilley Brook Golf Club

Applicants are invited for the above position who are fully qualified with a thorough knowledge of greenkeeping. The ability to lead and supervise staff is essential.  
Apply in writing with full CV to:

The Secretary/Manager, Lilley Brook Golf Club, Cirencester Road, Charlton Kings, Cheltenham, Glos. GL53 8EG

*Salisbury & South Wilts Golf Club*



## DEPUTY COURSE MANAGER

required for

**SALISBURY & SOUTH WILTS GOLF CLUB**

Applicants should be suitably qualified and experienced for this important position at a busy, 27 hole, private members Club.

Salary negotiable - No accommodation.

Apply in writing with full CV to:

K Daly, Course Manager, Salisbury & South Wilts Golf Club, Netherhampton, Salisbury, Wilts SP2 0DY.



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## Dunstable Downs Golf Club DEPUTY HEAD GREENKEEPER

required

Applicants must have suitable qualifications and experience in all aspects of course management.

No accommodation available – Salary negotiable.

Applications in writing with full CV to:  
The Secretary, Dunstable Downs GC, Whipsnade Road,  
Dunstable, Beds LU6 2NB

## Came Down Golf Club HEAD GREENKEEPER

Applications are invited for the above vacancy.

Applicants must have the necessary experience and qualifications to fill the above post.

Please apply in writing with CV to:

The Manager, Came Down Golf Club, Came Down,  
Dorchester, Dorset DT2 8NR.

Closing date: 30th August 1992



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(8 miles south of Cambridge)

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Accommodation may be available. Salary negotiable for the right candidate.

Please apply in writing with a CV to:

David Gandy, Chairman  
Malton Golf Club plc, Malton Lane, Malton, Royston, Herts SG8 6PE

Closing date 15 September 1992



## Brookmans Park Golf Club

Applications are invited for the position of

## DEPUTY HEAD GREENKEEPER

Applicants must have suitable experience in all aspects of course management and machinery maintenance.

Possible accommodation available.

Applications in writing with details of experience to:

The Secretary/Manager  
Brookmans Park Golf Club  
Hatfield, Herts AL9 7AT

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## POTTERS BAR GOLF CLUB

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TEL: (0707) 52020

requires a

## Senior Assistant Greenkeeper

who reports directly to the Course Manager and is responsible to him for the up-keep and maintenance of our golf course to the highest standard. To assist in this task there is a staff of five assistants. We are looking for a qualified person, or someone anxious to complete full greenkeeping management education.

Apply for a full job description and application form to  
A. Williams, Secretary and Manager



**Reigate Heath Golf Club**

require immediately a

## FIRST ASSISTANT GREENKEEPER

Previous practical experience and a basic understanding of golf course machinery and irrigation systems would be a considerable advantage.

The remuneration is negotiable and cottage accommodation is provided. Assistance will be given to those wishing to obtain further City & Guilds qualifications.

Apply in writing with CV to:

The Secretary

Reigate Heath Golf Club, Reigate Heath, Surrey RH2 8QR



## EFFINGHAM GOLF CLUB

Applications are invited for the position of

## ASSISTANT GREENKEEPER

Applicants must have suitable experience in all aspects of course management, machinery maintenance and irrigation systems.

Applications in writing to:

The Secretary, Effingham Golf Club, Guildford Road,  
Effingham, Surrey KT24 5PZ

# RECRUITMENT



## Carden Park Golf Course

require immediately

A qualified and experienced

### HEAD GREENKEEPER/ COURSE MANAGER

Applicants must be fully qualified and experienced in all aspects of modern greenkeeping methods, preferably gained on a new course. This is an ideal opportunity for an ambitious, hard working and skilled person who feels capable of developing a newly sown golf course.

Package negotiable.

Telephone Carden Park on 0829 250325 and ask for Stephen Perks for further details and appointment for an interview.

## Romiley Golf Club

require an

### ASSISTANT HEAD GREENKEEPER

To join an ambitious and progressive team. City & Guilds Certificate together with sound knowledge of machinery and irrigation systems required. Should be capable of leading a team after initial guidance from Head Greenkeeper.

Salary negotiable. No accommodation.

Apply in writing with CV to:

The Secretary  
Romiley Golf Club

Goosehouse Green, Romiley, Stockport SK6 4LJ

# MAXEL *golf*

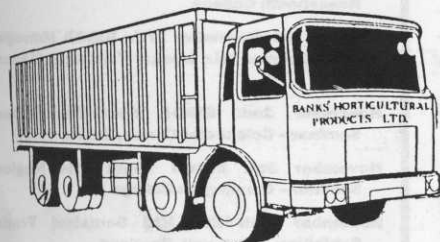
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52 → society numbers, but did not tell us first – the result: a huge 'phone bill and a lot of disappointed would-be players. Fortunately, Ufford GC were able to take some of the overspill, for which we were most grateful.

With all that behind us we set off round Lyn Arbon's track, which was in superb condition, and fielded two handicap sections: First in 0-15 was Dave Wilkinson (Cromer) with 36 pts, 2nd Peter Howard (Aldeburgh) with 34 pts and 3rd Roger Plumber (Cromer) with 32 pts. In the 16-28 section Steve Freestone (Eaton) was first with 37 pts, followed by Steve Piggot (Cromer) on 33 pts and Dave (HG) Wells (Stockbrook Manor) on 29 pts. Stockbrook Manor? Where's that? Billericay! The guest winner was Ron Maidstone (Eaton). Who said Cromer crabs don't come inland! Well done lads.

Prizes were presented by the Woodbridge captain, Mr Watt, and donated by Sisis, Rushbrooks, CMW, ICI, Doe's and Turf Actant. Our thanks to Woodbridge for a great day out – we won't send quite so many next time.

A message from Steve Freestone – will prizewinners pick their own prizes please – why would he say that I wonder?

There are two limited number events coming: Colchester on Aug. 12th has a limit of 36 and Eaton GC on Sept. 23rd has a limit of 40 (unless you want dinner on your lap!).

The AGM will be at Aldeburgh in December after the Turkey Trot – don't say I didn't give you enough notice.

MICK LATHROPE

#### MIDLANDS

On Thursday June 18th the Midlands section held their Summer Tournament at Handsworth GC. The weather was breezy but warm and this made for good golf on a well prepared course – for which we thank John Hughes and his staff. Congratulations to Paul Loffman, who played some superb golf and won both the gross and nett prizes.

Thanks to Handsworth GC for the courtesy extended to us once again, which made for a most enjoyable day. In addition, thanks are due to the many companies that once again sponsored our event and helped us during the day.

Dates to remember: Midlands versus Mid Anglia on August 26th at Blackwell GC. Autumn Tournament on September 9th at Harbourne GC.



DEAN CLEAVER

#### SCOTTISH REGION

The Scottish National Tournament was held this year at Kingsknowe Golf Club in Edinburgh on 23rd June. It was a glorious day with a stiff breeze and a field of 82 players did battle for the many trophies. Willie Blair and his staff had the course in great condition even without an automatic watering system and after a month with no rain. Dennis and Dorothy Maddison and their

# AROUND THE GREEN



catering staff looked after the the inner man in first class style and the captain Matthew Anderson, vice-captain Tom Dow and secretary Bert Wallace made us more than welcome and even invited us back again. To all those people our thanks for a great day. Even though it was sunny and hot the strong wind and dry conditions made for some interesting and testing golf shots but the lads had obviously been practising hard and some excellent scores were handed in. And for one of our friends from the Trade a nett 59 gave rise to some 'interesting' comments. Needless to say his name and a few others have been circulated to the section secretaries for handicap reviews before the autumn outings. Results were as follows: Scratch 1st – Kevin Peace – Peterhead 70. Nett 1st – Colin Scott – Killermont 63. Best Head greenkeeper – Gordon Moir – St Andrews 73-5=68. Best Assistant greenkeeper – Ross Wilson – Kinross 72-6=66. Best Apprentice greenkeeper – Donald Campbell – Galashiels 80-13=67. Best Veteran greenkeeper – Jimmy Neilson – Murrayfield 85-17=68. 1st Class 1st – Richard Sharp – Kinross 72-7=65. 2nd James Duncan – Aberdour 73-6=67. 3rd Jim Wilson – Torrance House 78-9-69. 2nd Class 1st Chris McLeod – Ratho Park 77-11= 66. 2nd Chris Yeaman – Swanston 82-12=70. 3rd Stephen Massam – Leven 85-15=71. 3rd Class 1st Hugh McLatchie – Peterhead 89-21=68. 2nd Andrew Forrest – Swanston 92-24=68. 3rd George Stavert – Peebles 97-27=70. Section team prize – East section. Associate member/trade/guest – John Robertson – Aitkens 83-24=59. Special Prize – Kevin Brunton – Souters 69 off scratch.

ELLIOTT SMALL

#### SOUTH WEST AND SOUTH WALES

A super day was had by all at the Iseki Regional Final, on the 17th June. The venue of the Isle of Purbeck Golf Club turned out to be not only spectacular to view, but very demanding to play, especially with the strong winds. Many a ball was lost in the rough, but undaunted, the strong minded battled on. There were one or two that excelled themselves, and others that fell by the wayside, but the very excellent meal provided made up for any disappointments.

Ian Pogson, area sales manager for Iseki UK Ltd, presented the prizes, and as usual kept the laughter flowing. Our thanks to him and the Iseki company for sponsoring the day. Also to their

traders for their support. Ian presented our Regional Shield to the South West Section who were in fine form. Our thanks to all who gave prizes for the raffle, it is very much appreciated.

We would like to thank all the staff at the Isle of Purbeck, and especially Mr and Mrs Robinson, chairman and managing director, who joined us for the dinner and presentation.

The day was made complete by a comment from one of the guests: "What a pleasure it has been to be with you all today, you are a credit to the greenkeeping profession." How true that was.

The results were: Category 1 – 1st P Thorn (S West) 72; 2nd L Millar Jun. (D&C) 72; 3rd R Hall (S Wales) 74. Category 2 – 1st S Montague (S West) 71; 2nd A Panks (S Wales) 76; 3rd T King (S Wales) 76; 1st reserve A McCombie (S Coast) 76. Category 3 – 1st J Leigh (S West) 68; 2nd L Hallet (S Wales) 69; 3rd R Parr (D&C) 75; 1st reserve B Price (S Wales) 78. Winning section for the regional shield: South West Section.

Many thanks to you all and good luck to the qualifiers in Coventry on the 24th September.

GORDON CHILD

#### COMING UP

- August 10th-12th: BIGGA National Golf Tournament – Littlestone GC, Kent**
- September 8th-10th: IOG Trade Exhibition – Peterborough, Northants**
- September 24th: ISEKI Championships Final – Coventry GC, Warwickshire**
- October 12th: TORO/PGA European Tour Student Greenkeeper of the Year Award – Aldwark Manor, York**
- October 14th: BIGGA Northern Region Seminar – Askham Bryan College**
- October 14th-15th: KUBOTA Challenge – The Belfry, Sutton Coldfield, Warwickshire**
- October 16th: BIGGA Northern Region Seminar, Reaseheath College**
- October 19th-November 27th: BIGGA Management Courses (six weeks) – Aldwark Manor, York**
- November 2nd: BIGGA South East Region Seminar – Colchester Centre, Essex**
- November 3rd: BIGGA South West Region Seminar – Cannington College**
- November 11th-12th: IOG Scotsturf Trade Exhibition, Edinburgh, Scotland**
- November 12th-14th: Golf Course Europe '92 Show – Monte Carlo, France**
- November 25: BIGGA Midlands Region Seminar – Warwickshire College**
- November 27: BIGGA North Scotland Section Conference – Dundee College**
- December 7: ICI Professional Products Premier Greenkeeper Award: Finals – Aldwark Manor, York**

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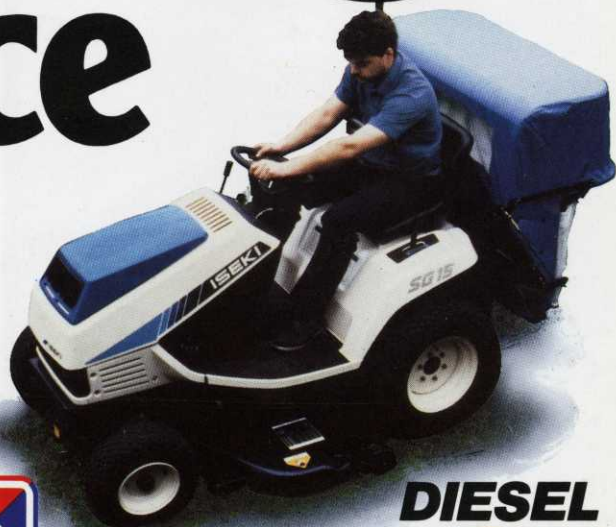
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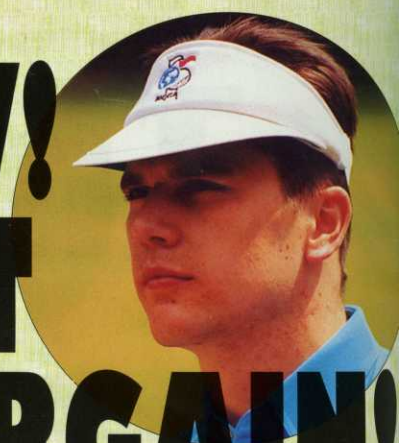
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