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GGCM/11/86

GOLF GREENKEEPING

and Course Maintenance

The Official Magazine of the
British Golf Greenkeepers'
Association

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The Association is affiliated to the
English and Welsh Golf Unions

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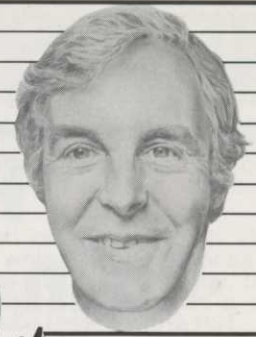
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Greenside Comment...



John Lelean

Keeping the members INFORMED

There is criticism this month from the Mid-Anglia Section directed quite justifiably at this magazine, complaining that insufficient information was published throughout the negotiating stages prior to the voting on the amalgamation of the three greenkeeper associations.

There is a mistaken belief in many membership organisations that Committee discussions are private and confidential and the less those who elected their officers into office know - the better. In Industry this policy has a name. It's called 'Mushroom Management'. Keep the workers in the dark, on a liberal bed of damp compost.

Last March we reported meetings were taking place at York and named the representatives from the B.G.G.A., S.I.G.G.A. and E.I.G.G.A. The report was speculative because as we said at the time no statements had been issued.

In April the first official announcement was made in the form of a progress report prepared by the Scottish Greenkeepers, a copy of which was sent to this magazine and published in full. There was no communication sent to **Golf Greenkeeping** by the other Associations, nor was there at anytime an official communication from the Steering Committee, Chaired by Mr. Peter Wilson of the E.G.U. acting on behalf of the R. & A.

Although progress reports were no doubt made to the Association's Executive Committees and were in turn communicated to Section Committees, the rank and file membership were uninformed until the new constitution was published and circulated in September. That month we urged ALL Greenkeepers to vote, but it would seem many did not either read the article, or bother to respond to the call.

Open and frank communication by way of regular statements must be the policy of the new joint committee. No one expects a smooth and unruffled passage whilst the three groups come to terms with one another. Although it is said 'No news is good news', in fact the opposite is the case. Someone will quote an informed source and before it has been repeated half a dozen times, what might be a snippet of truth has become so distorted as to be meaningless.

Our October editorial suggested the discussions should not be rushed nor the fledgling pushed from the nest before it could fly.

Can we also respectfully ask those who are to pilot the greenkeeper's future to a sound and secure anchorage not to forget there are some 5,000 members and potential members out on the golf course who would like to know how they are getting on.

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Next Month

GREENKEEPERS MERGER DISCUSSIONS
GOLF COURSE ACCESSORIES
SCOTSTURF EXHIBITION

P.G.A. Boss Colin Snape resigns.

In a surprise statement at the end of October, it was announced that Colin Snape, The Executive Director of the Professional Golfers Association had tendered his resignation.

The P.G.A. Board of Directors, which now includes Peter Alliss met at Apollo House and made the announcement in the absence of Colin Snape. He was said to be on holiday in Yorkshire at the time.

Snape, believed to receive a salary worth £50,000 a year, has led the professional golfers since 1972, improving their status and increasing the finances from £40,000 to over a million pounds in fourteen years.

One of his first moves on taking office was to reorganise the regional structure replacing part-time secretaries with full-time organisers, to develop professional tournaments and regulate the appointment of assistants with special emphasis on setting minimum standards for training.

Prior to the announcement rumours of his pending departure had been circulating in the golf world for some weeks, cutting links with not only the P.G.A. but the W.P.G.A. He took over

the management of the Women's Golf when their tour sponsorship support had dropped to such an extent it was in danger of total collapse and built the prize money up to £750,000 this year with an estimated £1,000,000 for 1987.

No reasons have been given other than a short statement to the effect that Mr. Snape is likely to seek interests in other fields. He will be staying on at the Association's house within the Belfry area until June of next year.

On two occasions he was behind moves to bring the Greenkeepers into the overall P.G.A. set-up, the first time in 1981 and again last year when representatives from the B.G.G.A. were invited to Apollo House to discuss proposals, which would give them a headquarters at P.G.A. headquarters a full-time Secretary, a joint magazine and an alliance between the two professional bodies in club golf.

Following an alternative proposal from the R.&A. to help greenkeepers set up their own professional organisation if they were prepared to amalgamate, the P.G.A. offer was rejected.

SOIL THERMOMETERS FROM BASF

BASF United Kingdom Ltd. are offering a free soil thermometer with autumn purchases of any product from the Floranid range of fertilisers.

The slow release of nitrogen in Floranid is controlled by temperature as well as moisture so it can safely be applied in late autumn.

With soil temperatures below 10°C the release of nitrogen slows considerably so that just sufficient is released to maintain the health and colour of the turf.

Roots and stems store the nutrients, which toughen up the plants enabling them to withstand the pressures of winter wear and weather conditions until temperatures rise in the spring.

Floranid distributors have stocks of the thermometers on request so that users can ensure Floranid is applied at the right time.

CHANGE OF NAME FOR FYFFES-MONRO

A new company Monro Horticulture Ltd. has been formed to expand the business of Fyffes-Monro, bought in June this year by the Kenneth Wilson Group.

Existing depots in the north now give K.W. based in Leeds, complete U.K. coverage with new outlets in Aylesford, Ormskirk, Cheltenham, Penzance, Chichester and Spalding.

Floranid

The slow release fertiliser range for turf

Floranid will even work for you in the winter.

Because the release of its nitrogen is controlled by both temperature and moisture Floranid can safely be applied in late autumn when soil temperatures are below 10°C.

Floranid will slowly feed the grass, maintaining colour, improving resistance to wear, disease and stress and, **because it contains more slow release nitrogen than other product ranges**, it will provide sufficient nutrient to ensure a quick and early recovery when temperatures rise in the spring.

The Floranid range,
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ALTRO SUPERTEE 2000 FOR THE BELFRY

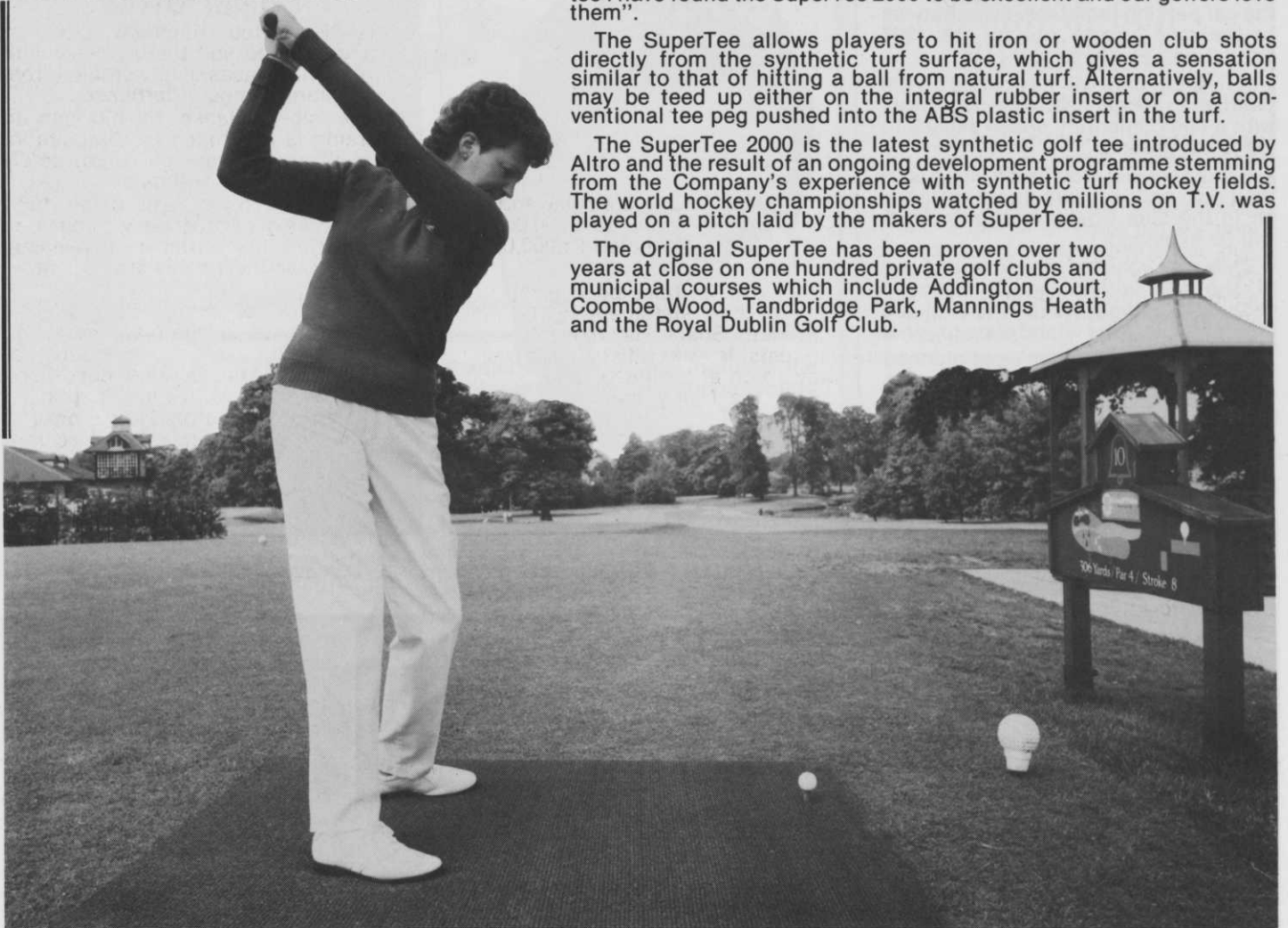
The Belfry Golf Club, venue for the Ryder Cup Competition, has purchased the new SuperTee 2000 synthetic turf tees for each of the 18 bays in their driving range and for occasional use, when necessary, on the tees of the two golf courses.

Commenting on the choice of SuperTee 2000 by The Belfry, Head Greenkeeper, Derek Ganning said, "We want our driving range to have the best synthetic surfaces available, as like real turf as possible. Similarly, for the golf courses, when conditions demand a temporary tee I have found the SuperTee 2000 to be excellent and our golfers love them".

The SuperTee allows players to hit iron or wooden club shots directly from the synthetic turf surface, which gives a sensation similar to that of hitting a ball from natural turf. Alternatively, balls may be teed up either on the integral rubber insert or on a conventional tee peg pushed into the ABS plastic insert in the turf.

The SuperTee 2000 is the latest synthetic golf tee introduced by Altro and the result of an ongoing development programme stemming from the Company's experience with synthetic turf hockey fields. The world hockey championships watched by millions on T.V. was played on a pitch laid by the makers of SuperTee.

The Original SuperTee has been proven over two years at close on one hundred private golf clubs and municipal courses which include Addington Court, Coombe Wood, Tandridge Park, Mannings Heath and the Royal Dublin Golf Club.



Pictured here is Altro's Golf Consultant, Joan Smith, who plays the Ladies' professional golf circuit, driving from the SuperTee 2000 at the famous 10th hole at The Belfry.

PESTICIDE CONTROL REGULATIONS

Delegates at a one day workshop called by the National Turfgrass Council have expressed concern over the timing of training and certification to meet the demands of legislation for the new Pesticide Control Regulations.

The final date for all commercial operators using pesticides to be fully trained and awarded certificates of competence has been set by the Ministry as 1st January 1989 and because approved courses to cater for large numbers of operators requires considerable planning and organisation many of the 200 delegates believed the industry could not meet the legislation requirements.

The first stage of the new Act came into effect on 6th October and over a period will require all those storing, selling and applying pesticides to be fully trained in their use and hold a certificate of competence.

Initially the Act will affect suppliers and distributors and those sub-contractors mainly concerned with local authorities who apply pesticides on commercial contracts.

So far the regulations do not require greenkeepers applying pesticides on their own courses to hold certificates, but as the Act was passed as 'enabling legislation', the Ministry of Agriculture can issue new regulations as they see fit.

The current regulations lay down fairly stringent conditions for the storage of chemicals. Decanting into unmarked containers and supplying pesticides to others not in the approved labelled pack also offends against the Health and Safety Acts.

Visits to golf courses and the greenkeepers' sheds previously the responsibility of Ministry of Agriculture Inspectors has been transferred to Environmental Health Officers working for the local authorities. They can bring prosecution proceedings for those who still adopt unsafe practices, under the Health and Safety Legislation.

In time all golf courses will be required to provide secure brick built storerooms for chemicals, protective clothing and adequate washing facilities.

NEW PRIZE DONOR TO GOLF

In order to forge closer links with an important sector of its business, Hayter has recently participated in two golf tournaments.

Hayter presented the second prize in the Eagles Scottish Garden Machinery Golf Tournament which took place in September at Rosemount Golf Club, Blairgowrie. Open to manufacturers and retailers in the garden machinery trade, the tournament has become a popular event which has been held annually since 1974.

In England, the British Golf Greenkeepers North West Division Autumn Tournament took place on 13 October at Pleasington Golf Club, Blackburn. The event was sponsored by Burrows G.M. Limited of Leyland, Lancs, who presented a trophy to the winner.

A prize donated by Hayter was won by Andy Peel, an apprentice greenkeeper employed at Trafford Borough Council at the William Rowe golf course.

EXTRA CAR PARKS FOR WINDSOR NEXT YEAR

Traffic chaos at peak arrival times during the three day Sports & Leisure Exhibition at Windsor this year has forced the IOG organisers to improve the car parking facilities and entrances to the race course site for the 1987 Exhibition.

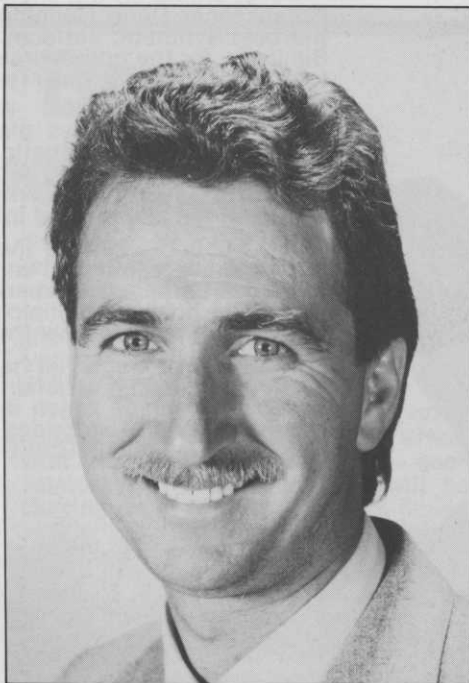
A new car park will be opened on the Windsor to Maidenhead road for visitors with a complimentary coach service to the show ground.

Exhibitors will also be provided with their own car park with direct entrance on to the site. Coach and lorry parks will be extended.

This year vehicles moved in and out of the site without much difficulty despite the single line traffic over the only bridge into the island showground.

September dates have been planned for the next five years but if the Exhibition continues to expand an eventual move to a Midland venue with better access must be the logical progression. For next year's exhibition a further 3,000 sq. metres of stand space has been made available with twice that amount added to the demonstration areas.

APPOINTMENTS



John Mullins
(Midlands)



John Stott
appointed Marketing Manager at
Rigby Taylor

TOP TURF FROM DEREK EDWARDS

Inturf, the new company launched by Derek Edwards, previously with Rolawn, have harvested their first crop of fine cultivated turf from the firm's Pocklington Nurseries.

Pocklington on the edge of the Yorkshire Wolds, between York and Hull is said to be an ideal growing area for turf because of the fast draining sandy soil.

Top quality turf for golf and bowling greens is sown from a mixture of 20% Browntop bents, 10% Creeping bents and 35% Chewings Fescues with 35% Slender Creeping Red Fescues, and marketed as Supersward One.

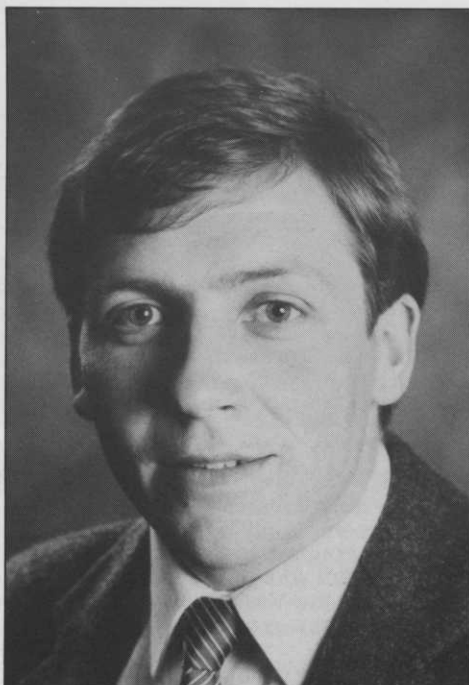
BILL PILE JOINS DON HUNT

Bill Pile, Downes Crediton's Course Manager for the past nine years has left the club to join Don Hunt's company as a sales representative and adviser for fine turf surfaces.

Previously first assistant at Exeter, Bill decided at the time when in the words of the song 'Life begins...' to accept an offer to change direction and so far he is thoroughly enjoying the experience.

We hear he is prepared to continue as Devon & Cornwall Secretary - a bonus to the Editor as his notes are always immaculately typed and arrive on time!

Bill left Downes Crediton on a high as it is reliably reported that Tommy Horton said his greens were the best the Pro circuit had played in Britain all year.



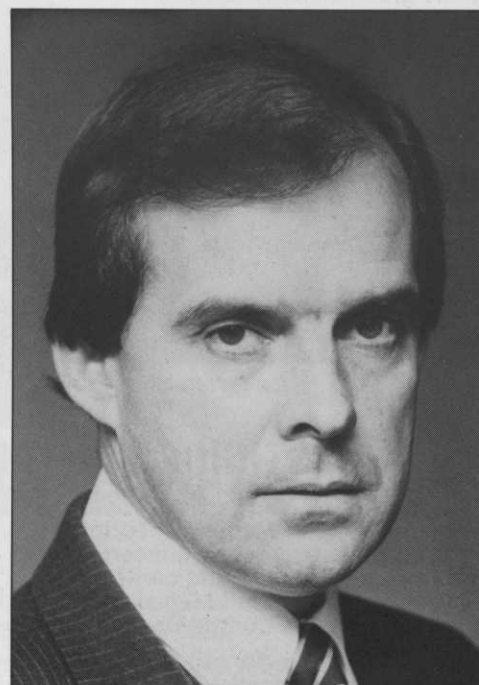
Patrick Taylor
(North of England)

SUPATURF APPOINT NEW REPRESENTATIVES

Two new field men have joined Supaturf Products. John Mullins in the Midlands and Patrick Taylor in the North of England.

The new appointments mark the start of a further expansion phase in the growth of the company and an increase in their marketing activity.

Mr. W. H. (Bill) Heath, and Mr. Fred Cox, Technical Adviser have both retired from the Company.



Robert Beedham
joins Rigby Taylor Board as
Financial Director

MORE CHANGES AT RIGBY TAYLOR

Rigby Taylor the Bolton based fertiliser manufacturer have appointed two new staff following a complete management restructure earlier this year, when Derek Phillips retired to be succeeded by Bernard Hedley as Chairman and Richard Lawrence, previously with May & Baker left the company and subsequently acquired an interest in Trident of Compstall.

The two new recruits are John Stott, who becomes Marketing Manager and Robert Beedham appointed Financial Director.



THE NEW GX20 LAND VEHICLE
FROM JOHN BRADSHAW LTD.

At a basic price of £3,500 has a 2 cylinder petrol engine

B.G.G.A. HOLD EXECUTIVE MEETING AT YORK

Section representatives met at York last month to discuss the voting both at regional meetings and through the postal ballot on the two resolutions concerning the amalgamation, of the three greenkeeping bodies.

As reported last month 80% of the total voting, were in favour, but the Committee were disappointed by the low poll despite the ease of ballot with a pre paid card.

Sections have already notified the Secretary concerning various points in the Constitution which will need clarification or amendment and a further meeting of the B.G.G.A. Executive has been arranged for Birmingham in November.

The Chairman, George Malcolm expressed concern over the lack of manning for the B.G.G.A. Stand at the Windsor Exhibition.

Next year will be the 75th Anniversary of the Association. The intention is to hold a Dinner to mark the occasion. Details of the date and venue will be announced later.



MOOR ALLERTON SEMINAR FOR NOVEMBER

A one day Seminar at Moor Allerton Golf Club, Leeds on Thursday 20th November has a line-up of speakers guaranteed to hold the attention of delegates.

Greenkeepers themselves will present a series of short papers and no doubt be closely questioned, but the named speakers all earn their living off the course though that does not mean their contribution will be any the less interesting, informative and dare we say - controversial.

Author and past Green Chairman at Lindrick, Nicholas Park makes a return visit to Moor Allerton following his winter lecture to the Northern Section.

Editor of Golf Monthly, Malcolm Campbell can encompass the whole golfing scene and he will be supported by Norman Bey, Philip Wharton from the Yorkshire Union and Rodney Foster a past captain of the Walker Cup Team.

The total seminar fee is £15.00 to include lunch, plus a set of follow-up notes to be mailed to delegates later.

Applications with fee to:
David Hannam, 12 Moorfield Avenue,
Menston, Nr. Ilkely, West Yorks.

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SLIT TRENCH DRAINAGE ON GOLF COURSES.

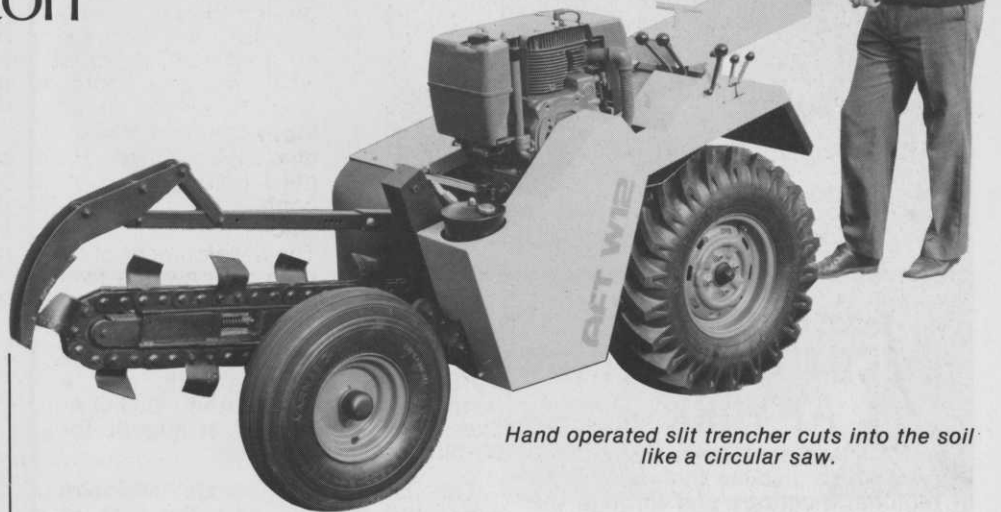
by David Shelton

The ever increasing popularity of golf is resulting in some courses being used far in excess of original design parameters. In turn this is leading to major problems for those who maintain such courses and waterlogging must be high on the list.

Getting rid of this water is often not easy; soil structure is damaged by the frequent traffic and the more waterlogged the site the more damage is done. Consequently prompt attention to badly drained areas must be given priority. It is more cost effective to undertake selective drainage at once than delay matters until an overall scheme is put in hand 2 or 3 years hence.

Surface compaction leads to surface waterlogging - very wet soil in the top 2in. - 3in. and bone dry soil beneath. Aeration techniques and core extraction partially help overcome this problem but by late autumn the top 12in. - 15in. of the soil is sodden and water movement to the original agricultural field drains and ditches is slow.

The need was seen for a more intensive drainage system that could be installed with little or no disruption to the playing areas and was cost effective. The slit trench drainage system that is now being widely used meets these criteria.



Hand operated slit trencher cuts into the soil like a circular saw.

The slits usually 2in. wide and 8in. - 12in. deep depending on the requirements of the site. They are cut through the soil 1, 2 or 3 yards apart and connect with the original main drains ditches or ponds. In some cases a new network of main drains may be required but the introduction of the revolutionary Hitek Findrain enables these also to be installed in trenches no more than 2in. wide. These trenches are partly backfilled with ½in. gravel, or Lytag - a permeable fill manufactured from waste flue ash - and then topped with a course sand. Disruption to play is minimal - only for the safety of the drainage operators is it necessary to take fairway out of play!

The latest slit trench drainage machinery cuts its way through the soil in the fashion of a circular saw. Totally enclosed, the excavated soil is conveyed up an elevator into a trailer alongside; this is so fine it may be used as it is to renovate other parts of the course. Outputs per machine of the order of 3,000 - 4,000 yards per day have enabled contractors to substantially reduce prices in recent years. However, where a number of fairways have to be drained thought should be given by clubs to purchasing their own equipment. If a suitable tractor is available an outlay of around £10,000 will purchase a tractor mounted machine together with the matching gravel and sand backfilling hoppers.

Drainage, being installed in the ground, is consequently out of sight! The life of the new system and its effectiveness can be considerably reduced as a result of poor workmanship. Many more businesses are now undertaking sportsfield drainage but standards vary widely. The lowest prices inevitably lead to cost cutting procedures and acceptance of them by a club may not be the best option in the longer term. Before taking the plunge look at similar work undertaken on other courses - it can be time well spent.

Substantial drainage work should be put out to tender asking the contractor to give detailed specifications. As a guide to price a club should expect to pay around 80p to £1.00 a metre.



A tractor operated super-trencher cuts a 2" wide trench. The excavated soil can be used on other parts of the course

David Shelton is Director of Shelton Trenching Systems. His company specialises in the development and manufacture of slit trench drainage equipment for home and export markets, and in contracting work in the south east. Contact him on: (0732) 833647 for drainage advice or through this journal.

Increasing use of Verti-Drain to relieve compaction and aid draining

The Verti-Drain has been widely used throughout the country during the last 3 or 4 years with considerable success. Machines have been purchased by the larger clubs and hired by those of more modest means. However in the last 12 months we have found an increasing tendency for the less wealthy clubs to purchase their own machines for a mixture of reasons.

1. The Golf Club can use the machine at their own convenience and when the conditions are most favourable for work to proceed.
2. Golf Clubs owning their own machines can take one or two greens out of play at a time using all their staff to conduct a short maintenance programme including Verti-Draining (with or without hollow tines), top dressing, scarifying and mowing. This may take a whole day and would not be possible if a contractor was aiming to cover the whole 18 greens in two days.
3. Many Golf Clubs have come to realise that not only their greens but also their tees, surrounds, walk on and walk off areas and fairways need deep tine aeration using a Verti-Drain. Obviously to hire a contractor to do the whole of this work would not be economically viable.
4. The development of hollow tines for use on a Verti-Drain has opened up a new avenue for golf courses which have problems with their greens and which are a corollary of the material from which the greens were made. In short the only solution to their problems is to remove the soil from which the green was originally made replacing it with different soil types.

This can be done in one of two ways.

The first is drastic and expensive and involves ripping the whole green out, re-building, re-seeding, and starting again.

The second is using the Verti-Drain with hollow tines to remove $\frac{3}{4}$ " cores 8" to 9" long at 4" centres, top dress back sand or the preferred material.

Experience over the last 12 months at Buckingham Golf Club has shown that this sort of treatment can be conducted approximately 4 times a year during the growing season. Each treatment can involve top dressing as much as 5 tons of sand per green and the holes heal over in approximately 7 to 14 days. It is estimated that after 4 years of this treatment the greens will have been totally renewed. Indeed, after 12 months treatment the members at Buckingham agree that they have never been in such good condition. Obviously this type of treatment is only possible if you own your own machine.



New Hollow Tine Corers from Charterhouse Turf Machinery

SEWARD

TURF MAINTENANCE

BISHOPTHORPE, YORK & WIGGINTON, YORK
SPECIALISTS IN VERTIDRAIN HIRE
 (First in Great Britain)
 (4 Seasons Experience)

"Vertidrain" the revolutionary new machine for the alleviation of compaction in sports pitches, golf greens and fairways.

Removes compaction at depths up to 16" improving surface drainage, root growth and the playing surface.

Sportsground and greens machines available.

New and used turf maintenance machinery always available for sale.

Contact **MIKE MALKINSON** on YORK (0904) 704121 or
MIKE SEWARD on YORK (0904) 761221 for details

Greenkeeping in leading prize winners for Groundsmen of the Year.

The Institute of Groundsmanship has announced the name of the winner of its 1986 Groundsman of the Year Competition. He is **John Warner**, Grounds Supervisor with the London Borough of Merton.

The winner of the Young Groundsman of the Year title is **Wayne Nash**, a groundsman for the British Steel Corporation in Ebbw Vale.

The two runners-up are **Laurence Pithie**, Golf Course Manager at Minchinhampton Golf Club in the first category, and **Colin Bell**, a student at the Royal Botanic Gardens, Edinburgh, in the second. Both win a golfing weekend at Gleneagles.

This is the sixth time that the IOG has organised this annual competition which is open to everyone involved directly in the practical maintenance of sports and leisure turf culture facilities.

Sponsored this year by Scottish Agricultural Industries PLC, and

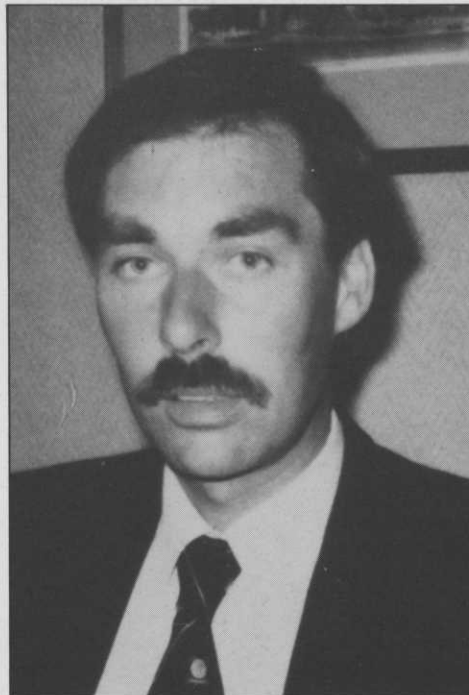
supported by **Golf Greenkeeping Magazine**, the competition attracted almost 1,000 entries from groundsmen, green-keepers, parks officers, gardeners, local authority maintenance staff, contractors, playing fields officers, trainees and student throughout the U.K.

Entrants were required to complete a questionnaire on various aspects of turf culture; write a brief paper describing their work in groundsmanship; complete a promotional slogan for SAI's 'Longlife' turf treatment; and attend a series of interviews with a panel of eminent judges.

The two winners of the contest will receive as their top prize and all-expenses paid visit to Phoenix, Arizona, to attend the 1987 American Golf Greenkeepers annual convention.

Between them, winners, runners-up and finalists share £3,000-worth of prizes, including Stewart Crystal trophies and education and training awards.

Special prizes are also being made to the colleges that submitted the highest number of student entries. The winner is The Cheshire College of Agriculture & Horticulture, which receives £400-worth of Longlife products, and the runner-up, The Lancashire College of Agriculture & Horticulture, receives £100-worth of Longlife products.



LAURENCE PITHIE
(Runner Up)
Groundsman of the Year 1986

Runner-up Laurence Pithie who lives at Tetbury, Gloucestershire, is Golf Course Manager at Minchinhampton Golf Club, which makes him Princess Anne's neighbour. There are two courses in his charge - and each has to be cared for in a different way.

The old course was established on common land in 1889, the new course was built in 1975. The National Trust and the Nature Conservancy Council impose strict rules on the maintenance of the old course, particularly regarding pesticides and other modern chemicals, and a problem also arises from grazing cattle.

A member of both the British Golf Greenkeepers and the English and International Golf Greenkeepers Associations, Laurence Pithie is a former winner of a similar competition during which he visited the western coast of the United States and Las Vegas.

Married, he has two young boys and in his spare time plays badminton with a local club.

In fourth place as Young Groundsman of the Year is Wayne Roberts.

Wayne, who is 19 and lives in Fearnhead, Cheshire, is an assistant Greenkeeper at Poulton Park Golf Club. He has completed the first year of a two-year course on greenkeeping at Reaseheath, and is a member of the British Golf Greenkeeper Association, North-West Section.

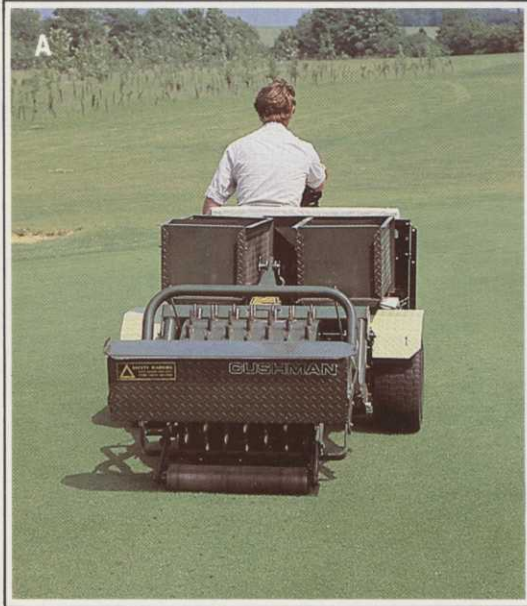
Trevor Dennis (20) in fifth place is a trainee apprentice Greenkeeper at King's Lynn Golf Club where he has worked for the past four years since leaving school.



JOHN WARNER (Winner) - Groundsman of the Year 1986

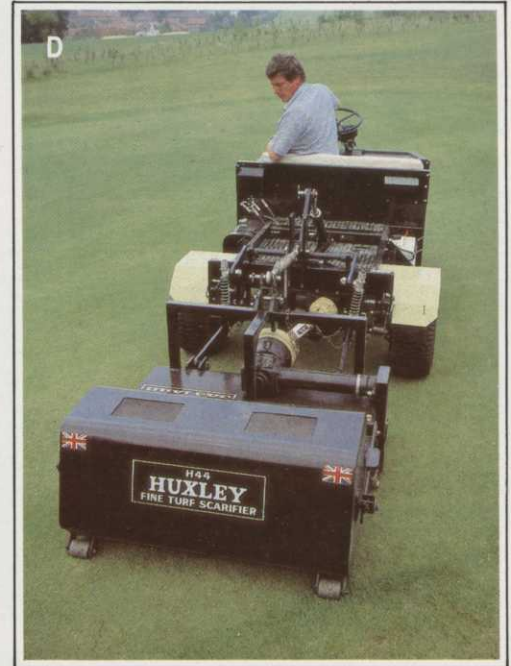
THE CUSHMAN SYSTEM

Featuring the Cushman 3 and 4 Wheel Turf-Trucksters with Huxley and Cushman implements, attachments and accessories for the care and renovation of fine turf, the maintenance of artificial surfaces and all-round transport and load-carrying duties.



Cushman System capabilities include:

- A Hollow coring
- B Spraying
- C Transporting
- D Scarifying
- E Mowing
- F Surface renovation



YOU KNOW you'll be in good company when you select a Cushman 3 or 4 Wheel Turf-Truckster with matching Huxley and Cushman attachments for your all-round grounds maintenance requirements. For the Cushman System is recognised throughout Britain as the number one choice of professionals for the all-season care and renovation of fine turf and artificial surfaces.

The proof is at work all round the country, where more than 1,000 Cushman Systems are helping grounds staff, Local Authority maintenance teams and contractors keep golf courses, sports and playing fields, recreation areas, parks, and all their surrounds, in prime condition –

day in, day out, throughout the year.

And they do it in immaculate style, thanks to the low weight, operating performance and sheer driveability of the Cushman Turf-Truckster and the ease and speed of attachment of the fully-matching implements and accessories from Huxleys and Cushman.

With the Cushman System, you're ready for work in minutes. Just insert two or three pins and, on driven machines, couple up the Truckster's power take-off shaft. For maximum convenience during operations, and when transferring equipment from site to site, the Turf-Truckster has a live hydraulics system with single

The Cushman System at work with

TURF MAINTENANCE



MULTI-DEPTH AERATOR (H84): Designed to carry out complete aeration treatment of all fine turf areas, the 42in wide Huxley Multi-Depth Aerator can be set to work from 4 1/2in to 9 1/4in deep to suit most aerating needs. Adjustable rear roller and a choice of three blade sizes (see back page) enable quick variation of working depth. Can also be used as a light roller only.



FINE TURF SCARIFIER (H44): Mounted on the Turf-Truckster's three-point linkage frame (H16), the pto-driven Huxley Fine Turf Scarifier has a 36in working width and 52 thin, double-edged blades to remove dead, matted and lateral-growing grasses. Front and rear adjustable rollers give precise control over scarifying depth (max. 3/4in), blade spacing is variable (min. 5/8in) and the grass box swings over for easy emptying.



TOP DRESSER (C5): Mounted on the Turf-Truckster's chassis and driven by the power take-off, the Cushman Top Dresser produces a precise and even spread of most free-flowing materials across a 31 1/2in width. Capacity is 9 1/2 cu ft (approx. 1000lbs) and delivery is by a combination of belt conveyor and rotating nylon brush. Application rate is controlled by metering gate, with drive engaged/disengaged from the driver's seat.



GREENSAVER AERATOR (C10): The Cushman Greensaver Aerator, with Weight Box set, is able to perform virtually all hollow coring (with core collection) and shallow aeration operations on fine turf. Three drum types are offered: standard 1/2in coring drum (shown here), with trap door for rapid core disposal; 3/8in coring drum, with trap door; and 2 1/2in deep slicing drum. All produce a 3 1/4in x 4in aeration pattern.



TR66C & TR84C HYDRAULIC REELMOWERS: Able to produce a precise cut on both fine and short-to-medium length grass, the Huxley TR66C (66in cut) and TR84C (84in cut) mowers are mounted on the H16 three-point linkage frame behind the Turf-Truckster and driven by self-contained hydraulic systems powered by a pump on the Truckster's pto shaft. All operations – raising/lowering of the machine and reel forward/neutral/reverse rotation – are controlled from the driver's seat. Height of cut is varied on rear rollers from 3/8in to 2in. The TR66C has three x 24in reels; the TR84C has three x 30in reels.



MULTI-TINE AERATOR (H34): With its 40in working width, the Huxley Multi-Tine Aerator is able to carry out a full range of aeration tasks. This attachment is available with a choice of 4in solid, 4in hollow or 3in slitting tines (see back page), and has a large diameter drum which helps produce a clean surface finish. The heavy rear roller smoothes the surface after solid or slit tining. Raised, it adds weight for hollow coring.



DRAGMAT with HYDRAULIC MOUNTING (H31) or FIXED MOUNTING (H27) FRAME: Developed for the rapid matting of top-dressing materials, the 6ft Huxley Dragmat can be supplied with either a Hydraulic Mounting Frame (illustrated), which allows the complete unit to be raised clear of the ground for transport, or a Fixed Frame which enables use in conjunction with the C5 Top Dresser.



GREENS BRUSH (H33): For general use on sports turf, the switching of golf greens and effective brushing-in of top-dressings, the Huxley 8ft Greens Brush has a spring-loaded frame to follow ground contours. It can be raised and lowered hydraulically from the driver's seat providing precise control over operating height and degree of brushing action, as well as affording convenient movement from site to site.

lever control which lets you lift, hold or lower attachments from your seat, while you're on the move.

And, when you want to transport staff, materials or hand tools quickly and conveniently across turf or tarmac, the Cushman Truckster helps you do it without fuss or bother, teamed with one of the special Huxley load-carrying attachments.

The versatility of the Cushman System doesn't stop there, either. Fitted with the Huxley H16 three-point linkage frame, you can go reel mowing or fine turf scarifying with your Truckster. If required, the H16 hydraulic lift frame also accepts other specialist

equipment to assist with the care and renovation of artificial sports and play areas. Just one more application where the Cushman System will prove its worth.

As an owner or operator, you can rest assured that Cushman and Huxley implements, attachments and accessories have not only been designed and built for the job, they've also been designed and built to last. Engineered to give you outstanding service, performance and economy of operation to ensure that you achieve the highest all-round maintenance standards on your sports, recreation and amenity surfaces, every working day of the year.

Huxley and Cushman attachments



SPRAYER (H6): Mounted directly onto the Turf-Truckster's chassis, the 66 gallon (300 litre) Huxley sprayer has a three-section, 19½ft (6m) boom, pto-driven diaphragm pump and colour-coded nozzles. Application rate range meets all turf spraying requirements. Operating controls are grouped conveniently to the driver's right hand and a high pressure hand lance with 50ft of hose are standard.



CYCLONE SPREADER (C3): Designed to spread fertiliser and seeds across swath widths of up to 40ft, the Cushman Cyclone Spreader has a 300lb capacity and is driven, by flexible shaft, direct from the Truckster's pto. The spreader has a galvanised steel hopper and attaches quickly onto the rear of the H5 Short Dump Box or H7 Longbox. Rotary agitation prevents bridging of materials and output is varied by sliding gate.



MOLEBLADE (H35): Hydraulically-controlled from the driver's seat, the Huxley Moleblade is able to relieve compaction and improve drainage/soil aeration in all problem turf areas. Working depth is adjustable in 2in steps down to 9in and the leading disc coupler and spring-tensioned rear roller ensure minimal turf tear and disturbance. A Weight Box Set (H26) – supplied with the C10 Greensaver – is needed for this attachment.



SHORT DUMP BOX (H5): With its 1,500lb payload, the rugged Huxley Short Box is ideal for handling loose and bulky materials as well as small machines and hand tools. Both hydraulic tipping and tailgate release are controlled from the operator's seat. The unit measures 35in x 52in x 12in internally and it attaches to the Cushman Turf-Truckster using just three pins – please see back page for detail of tipping ram and connecting pins.



LONGBOX/FLATBED (H7): For maximum versatility, the hydraulically-tipped Longbox has quickly removable sides and tailgate enabling it to be used either as a flatbed or pick-up box transporter. Maximum payload is 1,500lbs and internal dimensions are 48in x 52in x 13in. Clip-on, mesh **EXTENSION SIDES (H7a)** – shown above right and on front cover – are available as an option to further extend this useful attachment's load-carrying ability.



TURF TRAILER (H40): This low-loading work trailer, with its 1,000lb (approx. 23 cu ft) capacity, was developed by Huxleys for use with Turf-Trucksters and other suitable vehicles. It has a clevis-type tow hitch, special wide turf tyres and a ramp tailgate for the convenient loading of a wide range of grounds maintenance equipment and materials. Internal dimensions are 58in x 42in x 16in.



LOW-LOADING TRANSPORT CARRIER (H32): Fully mounted on three pins at the rear of the Turf-Truckster, the robust Transport Carrier combines a handy ground level loading ability with a useful carrying capacity for general maintenance tools and materials. Internal dimensions are 60in wide x 36in deep. The complete unit is raised and lowered using the Truckster's hydraulic system, controlled from the driver's seat.

The Cushman System

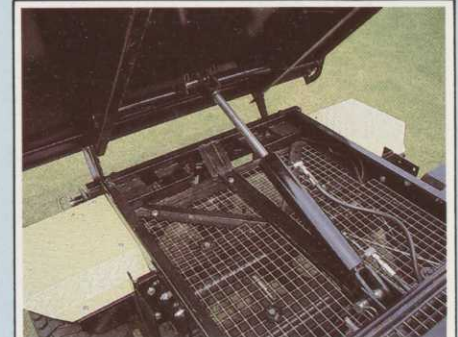
with Huxley and Cushman attachments

ACCESSORIES & SPECIAL FEATURES

POWER CONVERTER (C29): Enables electrical equipment, such as a hedge trimmer, drill or light, to be plugged into your Cushman Turf-Truckster on-site, miles away from the nearest mains power supply. Produces either 12 volt DC or 110 volt DC to operate most suitably switched small hand tools. The Power Converter is of compact size, fitting behind the seat, and has fuse protection and 'correct voltage' indicator light.



HEAVY-DUTY 3-POINT LINKAGE FRAME (H16): Equipped with the Huxley hydraulic Linkage Frame, your Turf-Truckster can be used with alternative, specialist attachments for the care of both artificial surfaces and grassed areas, the hydraulically-operated frame enabling mounted equipment to be raised, held and lowered, under single lever control, from the driver's seat. NB: The H16 Frame is required on Turf-Trucksters using the H44 Scarifier and TR66C/TR84C Hydraulic Reelmowers.



PIN CONNECT & LIVE HYDRAULICS: Just two or three pull pins is all it takes to attach Cushman and Huxley grounds maintenance and transport equipment to the rear of your Cushman 3 or 4 Wheel Turf-Truckster. Once connected, you can raise, lower or hold the attachment at any intermediate height from the driving seat, while you're on the move, thanks to the Truckster's standard live hydraulics system. It makes work, and transport, that much easier.



Three different blade sizes are offered for use on the **HUXLEY MULTI-DEPTH AERATOR (H84)**. From the left: Standard 4 1/2in-6 1/4in slicing knives (HUX 023); Special 6 1/4in slicing knives (HUX 050); and Deep 9 1/4in slicing knives (HUX 075).



A choice of three alternative tine types is available for fitting to the **HUXLEY MULTI-TINE AERATOR (H34)**. From the left: 4in Hollow Tines (MT 005); 3in Slicing Tines (MT 007); and 4in Solid Tines (MT 006).

A **FIBREGLASS CAB (A2/B2)** and **CLOTH DOORSET (A3/B3)** are available for both the Cushman 3 and 4 Wheel Turf-Trucksters.

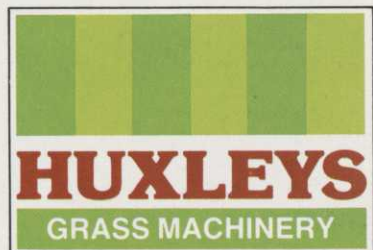


A **HEATER/DEFROSTER (B4)** can also be fitted to take the chill off those wintry mornings. Also shown is the **FULL ROAD LIGHTING KIT (H9)**.

Huxleys Grass Machinery and Cushman/OMC Lincoln reserve the right to improve or alter their products and adjust prices without notice, and without obligation, in respect of machines, components or accessories already supplied.

FOR MORE INFORMATION, ADVICE OR ASSISTANCE, PLEASE CONTACT:

ASK US FOR A NO-OBLIGATION DEMONSTRATION ON YOUR TURF AND OTHER SURFACES.



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