



The Official Magazine of the British Golf Greenkeepers' Association

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and Course Maintenance

The Official Magazine of the British Golf Greenkeepers' Association

Founded 1912

The Association is affiliated to the English and Welsh Golf Unions

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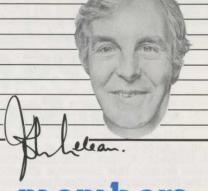
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Greenside Comment...



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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SCOTSTURF EXHIBITION

NEWS Round-up

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 BASE

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,

"It puts you back in control".

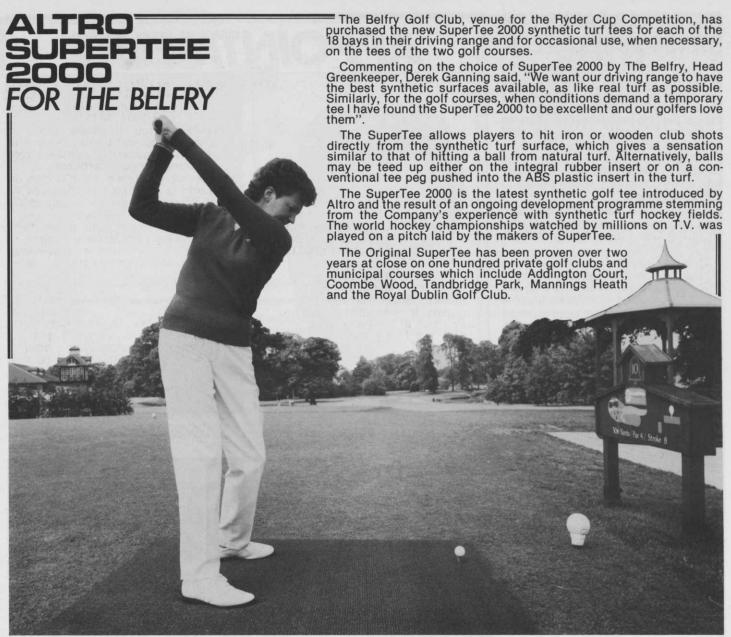
BASF United Kingdom Limited, Fertiliser Department, Lady Lane, Hadleigh, Ipswich, IP7 6BQ. Tel: (0473) 822531.







Floranid is a BASF trade mark.



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 subcontractors 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, Blairgourie. 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

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.

John Mullins (Midlands)



PPOINTMENTS

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 joint 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

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.



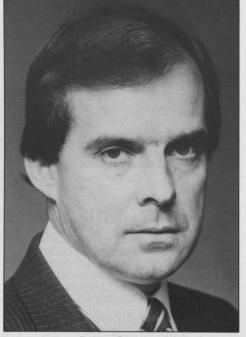
Patrick Taylor (North of England)

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 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.



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.



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.

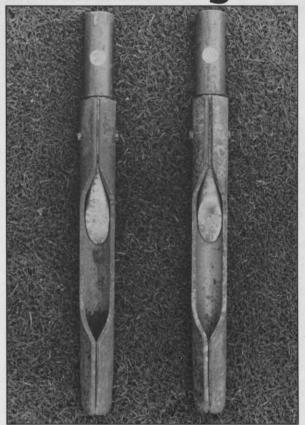
Substantial drainage work should be put out to tender asking the contractor to give detailed specifications. As a guide to price a club should expect to pay around 80p to £1.00 a metre.

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.



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

Increasing use of Verti-Drain to relieve



New Hollow Tine Corers from Charterhouse Turf Machinery

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

The Golf Club can use the machine at their own convenience and when the conditions are most favourable for work to proceed.

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.

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.

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 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.



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

"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

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 turfculture facilities.

Sponsored this year by Scottish Agricultural Industries PLC, and

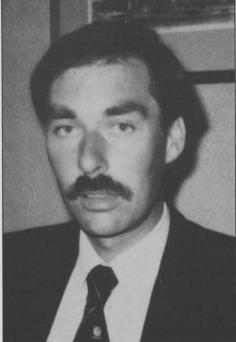
supported by Golf Greenkeeping Magazine, the competition attracted almost 1,000 entries from groundsmen, green-keepers, parks officers, gardeners, local authority maintenance staff, contractors, playing fields officers, trainees and student throughout the U.K.

Entrants were required to complete a questionnaire on various aspects of turfculture; write a brief paper describing their work in grounds-manship; 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. Special prizes are also being made



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

Married, he has two young boys and in his spare time plays badminton with

In fourth place as Young Grounds-man 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.



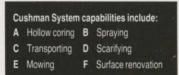
JOHN WARNER (Winner) - Groundsman of the Year 1986

THE CUSHMAN SYSTEM

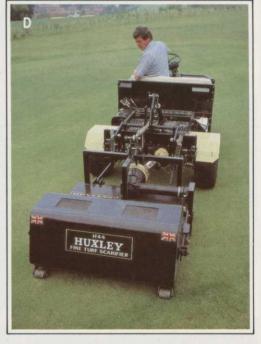
Featuring the Cushman 3 and 4 Wheel Turf-Trucksters with Huxley and Cushman implements, attachments and accessories for the care and renovation of fine turf, the maintenance of artificial surfaces and all-round transport and load-carrying duties.















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 4½in to 9½in 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. ¾in), blade spacing is variable (min. ¾in) 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 31½in width. Capacity is 9½ 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 ½in coring drum (shown here), with trap door; and 2½in deep slicing drum. All produce a 3½in 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 %in 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 coulter and spring-tensioned rear roller ensure minimal turf tear and disturbance. A Weight Box Set (H26) – supplied with the C10 Greensayer – is needed for this attachment.

TRANSPORT





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 4½in-6¼in slicing knives (HUX 023); Special 6¼in slicing knives (HUX 050); and Deep 9¼in 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/DEFROST-ER (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:



Hillside, Thorpe Lea Road, Egham, Surrey TW20 8JG, England Tel: 0784 38666 Telex: 894426 and at The Dean, New Alresford, Hants SO24 9BL, England Tel: (0962 73) 3222

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

Dramatic ending at the Jacobsen National Tour

There was a dramatic ending to the Jacobsen National Tournament for the 1986 trophy at Hunstanton when John Stiff, Tracey Park's twenty-seven year old Greenkeeper beat Gordon Payne from Maidenhead at the second extra hole after both competitors had tied with the same stableford score.

Eighteen year old Nigel Wilson, Tracey Park's young assistant took third place with 36 points. Playing off 12 handicap he scored at every hole and returned a consistent 18 points on both the outward and inward half of the course.

Not only is Nigel an assistant greenkeeper at Tracey Park, but as an honorary member of the club is also this year's junior captain.

In complete contrast to the earlier competition in April, the championship links course was in its most benign mood. The wind scale in the clubhouse barely measured 5mph, just sufficient to move the heavy morning mist and let through yet another day of warm autumn sunshine.

Scores reflected the conditions and both Stiff and Payne recorded 37 points, with eleven other competitors within three points of their total.

At the first extra hole Gordon Payne made the green with a wedge for his second shot. John Stiff pulled left, but was able to use his putter from the apron to hole out from three feet for par, and a half.

Moving to the 398 yard eighteen, Gordon positioned his tee shot in the middle of the fairway. John hooked left leaving his ball in deep rough on the side of a dune. With hands well ahead of the ball and standing below the shot he hit a four iron to within twenty yards of the elevated green in front of the clubhouse. A truly Ballesteros type shot.

Gordon hit the green with his approach, but the ball fell back leaving him a pitch to the flag with very little green to work. The chip ran the width of the putting surface and then the inevitable three more to get down.

John played a typical links type pitch and run, lipped the hole with the putt, leaving himself a tap in for the trophy.

In the morning round Stiff, who plays to five at his home club, Tracey Park, hit sixteen greens in regulation figures and made four birdies. Both he and Payne drew a blank on one of the par three holes after putting their tee shots in a bunker.

Those who know the Hunstanton links will find two changed holes on the inward half. The par four thirteenth, previously a straight drive over the hill has a new green, dog-legged right with an intimidating copse of stunted bushes in line with the green for the shorter hitter. It is very much a decision hole, a confident five or six iron will make the putting surface on a calm day. With the wind against it is safer to be on in three and look for the single putt.



John Stiff, Head Greenkeeper at Tracey Park and South West Section member wins the Jacobsen Trophy at the second extra hole.

The par three fourteenth at 177 yards is a great deal longer than it looks. It is perhaps one of the fascinations of some short holes on any course, where the golfer estimates the distance, chooses a club and then reads the yardage in disbelief. The eye looks for reference points, such as a tree, bunker or ground contours. Without them, or if they are cleverly sited the distance can be misleading.

There is, of course, the famous optical illusion on the A719 between Ayr and Girvan where a car with the engine off will appear to coast uphill because the surrounding land slopes in the opposite direction.

Both are new greens, seeded last year and not without their problems. Some coarser grasses such as Cocksfoot and Yorkshire Fog are developing in the sward, which naturally led to considerable discussion and a fair amount of advice back in the clubhouse. Some believe it can be contained with a cutting regime, others suggested the only cure would be to dig up the green, sterilise the soil and

If any of our readers have overcome the problems of coarse textured grass in fine turf, their solutions will be published for the benefit of not only Hunstanton, but courses everywhere.

Among the guests at the presentation dinner held later in the clubhouse and hosted by Jacobsen's U.K. Sales Manager, Chris Smith were Mr. Jeremy Thompson a past Captain and present Green Chairman, Mr. Jimmy Reed, Head Greenkeeper, Mr. John Carter the club professional who fulfilled the role of starter, organiser and referee throughout the day and the Editor of Golf Greenkeeping, Mr. John Lelean.

Presenting the trophy and a voucher for £100 to the winner, Mr. Chris Smith announced that John Stiff would be invited to attend the G.C.S.A.A. Educational Conference in Arizona in January 1987.

Other placings:

35 points - H. Roberts (8); D. Bagshaw (13); G. Cox (13); S. Wood (12).

34 - J. C. Newman (6)

33 - D. Hutchinson (9); K. B. Heaney (8); H. Morgan (10); D. Collins (12); A. Burden (17) 32 - M. Hughes (6); R. Barker (6); B. Plain (13)

30 - J. Chapman (15) 29 - B. Emberley (7)

24 - M. Strange (13); P. Unwin (22).

Lyme Regis Golf Club

Applications are invited for the post of

HEAD GREENKEEPER

This old established Club seeks a person of proven ability and experience in all aspects of Course Management.

Applicants should have a practical working knowledge of the use and maintenance of modern greenkeeping machinery, together with the ability to direct and train Staff.

Preference will be given to persons who are members of a recognised Greenkeeping Association.

This 6,200 yards course is mixed heathland and parkland situated close to Lyme Regis.

Salary by Negotiation

No accommodation

Please write, stating age, qualifications, etc. and Salary expectations to:-

> THE SECRETARY. LYME REGIS GOLF CLUB, TIMBER HILL, LYME REGIS, **DORSET DT17 3HQ**

SECTIONAL News

CLEVELAND

Hon. Ass. Sec: Roger Shaw, 12 Bede Terrace, Ferryhill, Co. Durham DL17 8AJ

On the last beautiful day of September our Annual Autumn Tournament was held at Blackwell Grange Golf Club.

Anthony and his staff had the course in super condition and a good day was had by all that attended, even if the turnout was lower than expected.

The Steward laid on an excellent meal, our thanks to his staff, said by the Brancepeth Captain to be about the best in the area. The Blackwell lads did well in the prizes coming 1st and 2nd.

A. Duncan and D. Dean (Steward)
A. Naisbitt and D. Hughff (Captain)
M. Warner and N. Catt
43 pts.
41 pts.
39 pts.

The Highspeed Oil Tournament will be held at Eaglescliffe on October 23, tee is booked from 12 - 1.

A talk has been arranged at Darlington in November by Toro Irrigation, details of date and time later.

The E.G.M. was held as agreed at Billingham Golf Club on the 1st Oct. The turnout can only be described as pitiful, with only 12 members turning up. Both motions were passed unanimously in favour of the amalgamation.

On an extra note, as has been said, the turnout at Blackwell and Billingham was very poor. Members are reminded that their efforts in attendance is greatly needed if tournaments, talks, etc. are to continue in the future. With Winter Lectures and Scotsturf soon with us, the Secretary asks Members to

SUPPORT THEIR SECTION!

SOUTH COAST

Hon. Sec: J. R. Dennis, Hampshire College of Agriculture, Sparsholt, Winchester, Hampshire SO21 2NF. Telephone: (096) 272441 Ext. 288.

Once again the Section enjoyed a beautiful Autumn day for its 36 hole Greensome Stableford Competition.

Fifty Members and guests took part in the Competition at Basingstoke Golf Course, with the following results:

1st Mr. E. Belcher and Mr. P. Coombs (Bognor Regis Golf Club)
2nd Mr. R. Gray and Mr. A. Hebditch (Broadstone Golf Club)
3rd Mr. G. Payne and Mr. P. Franklin (Maidenhead Golf Club)

Best Morning Score
Mr. B. Forder and Mr. S. Lockhart
(Southampton Golf Club)
Best Afternoon Score
Mr. R. Walker and Mr. R. Hill
(Queens Park Golf Club)

The course was in tip-top condition, thanks to Head Greenkeeper, Ian Rickman and his staff. Ian was, in fact, playing three roles - Greenkeeper, Competitor, and Match Secretary!! At the last Committee Meeting Ian stated that he would not be seeking re-election at our next AGM, so if any member would like to take on this position, will they please inform me or our Chairman.

The Section again wish to thanks its friends in the Trade for such a good prize table and record its thanks to:-

J. T. Lowe; T. Parker & Sons; Rigby Taylor; Roffey Bros; Huxleys, and Jim Fry, Section President.

An 18 hole Stableford Competition has been organised for **Wednesday**, **10th December**, **1986** at the Royal Winchester Golf Club - teeing off is between 10.30 a.m. - 11.30 a.m.

This new event will be sponsored by Rigby Taylor and J. T. Lowe. The entry fee is £7.50 which will provide a Christmas Lunch, and the fee should be sent to:-

lan Rickman, 53 Woodroffe Drive, Basingstoke, Hants. RE22 6NH.

by Wednesday, 3rd December, 1986

Wednesday, 3rd December, is of course the date for our second speaker at our Winter Meetings.

On this occasion, Derek Ganning, Manager of the Belfry Course will be talking on Course Management.

Please support our speakers with your attendance.

NORTHERN

Hon. Sec: D. C. Hannam, 12 Moorfield Avenue, Menston, W. Yorks. Telephone: (0943) 72008

Except for the aqueous intermission on the day of our Autumn Tournament on October 14th this 'back end' has been truly marvellous. Out-of-season construction going ahead completely uninterrupted by the usual early winter downfalls. Those opting for the Vertidrain this year had their substratums severly disturbed. There has even been talk of artificial irrigation being used — in October!

Getting back to the Autumn Tournament. This was the event that promised to be bathed in late Autumn sunshine, but not so. It poured down! This didn't prevent 40 or so players 'enjoying' their golf.

Our thanks to Fulford Golf Club for allowing us the privilege of playing this lovely course. Our grateful thanks too, to those who contributed so generously to the prize table.

Our Extraordinary General Meeting to vote on the proposed amalgamation of the three greenkeeping bodies had the following results:

Whether or not to amalgamate, 17 votes to 2 in favour.

Whether or not to allocate £15,000 to a trust fund in the event of an amalgamation — Unanimous.

Should your sense of tradition and history fill you with nostalgia you may feel urged to invest in a BGGA tie or perhaps a sweater (scarce). These will shortly become collectors items if we go BIGGA.

DEVON & CORNWALL

Hon. Sec: Bill Pile, 33 Knowle Drive, Exwick, Exeter EX4 2DF. Telephone: 214053

A warm sunny day greeted the competitors for our first meeting of the season at Exeter Golf & Country Club. The course was in fine condition and even the sheds had been tidied and swept so your truly couldn't make any untoward comments!

Jeff Mills the Head Greenkeeper gave those not golfing a tour of the course whilst the golfers contested for the Stanley West Cup and Ransomes watch.

As avid eagle eyed readers of this section will note the cup went to the greenkeeper with the highest score, whilst second and third although having higher scores being trade members are not allowed to win this particular trophy.

 1st
 K. Luxton (East Devon G.C.)
 32pts.

 2nd
 M. Spearman
 34pts.

 3rd
 J. Baker
 33pts.

Keith Stuart of Stanley West kindly presented the prizes donated by Ransomes and S. West Ltd.

The afternoon's talk by Keith McKee of Fisons on chemicals and the law was both interesting and informative and very well received by the fifty three members of our section who attended.

Our thanks go also to both greenkeeper and trade members who contributed to the raffle prizes, the proceeds of which help to pay for the Christmas entertainment.

As I am sure all members will now be aware I have relinquished my post of course manager at Downes Crediton Golf Club and am indeed working for D. O. Hunt Ltd. A vote was taken at Exeter which showed that the members wish my wife and myself to continue running the section.

It was proposed by Brian Summers and seconded by Chris Gadsby that Richard Whyman be elected to the committee to keep the balance in favour of the greenkeepers, this was passed.

Your committee is now as follows:

Chairman:

V. Chairman:
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I have at last learned to delegate the work at section meetings and I wish to thank Gordon Child for marking the cards and Chris Gadsby and Martin Kingdom for selling the raffle tickets.

An oak tree given by the section is to be planted on the right of the seventh fairway, by kind permission of Exeter Golf Club, to the memory of Mr. & Mrs. Mortimore. A plaque is to be engraved to this effect and secured to the tree stake.

MID ANGLIA

Hon. Sec: L. Wakerell. 26 Loxley Road, Berkhamsted, Herts. HP4 3PS

The Mid-Anglia Section held an Extraordinary General Meeting at Beadlow Manor Golf and Country Club on Wednesday 1st October at 7.00 a.m.

The Chairman opened the Meeting for discussion on the proposed Constitution for the new Association comprising Members of the B.G.G.A., S.I.G.G.A. and E.I.G.G.A.

Twenty-Three Members were present with apologies from M. Lay. Points of view expressed in discussion included:

- The proposed merger was being rushed through without the interests of B.G.G.A. Members being considered.
- If Greenkeepers who had broken away from B.G.G.A. in the past now wanted a merger it should be as the B.G.G.A.
- Annual Subscriptions had been paid up to 30th April 1987, so the new proposal that 1st January 1987 should be the beginning of the Financial Year for B.I.G.G.A. was unacceptable.
- Sections (or Regions) should be responsible for their own finances - it was not considered necessary for any Board of Management to allot funds to Sections as was felt adequate.
- Uniforms should be available (e) but not compulsory wear.

Members also commented on the lack of information available through the Magazine - Golf Greenkeeping during the Meetings of the Steering Committee and that the B.G.G.A. Representatives failed to represent the interests of its Members and seemed happy to agree with whatever was best for the other Associations.

It was also suggested that the proposed Constitution was a copy of E.I.G.G.A. documents, by some Members at the Meeting.

Of the Twenty-Three Members present Sixteen had sent their Voting Cards to the Electoral Reform Society Voting Cards (they received their before a Meeting had been arranged) One Member did not have a Vote and the others voted accordingly:-

For 2 -Proposal 1 Against 4 For 2 -Proposal 2 Against 4

The general consensus was the Executive Committee must represent the views of its own Section Members and not those who are the most voluble.

Report by: R. J. Goodwin, (Assistant Secretary)

CLASS B GREENKEEPER (28) seeks Head Greenkeeper position in Yorkshire Fully trained. C&G Certificate

Ashley Clark 36 Greystoke Street, Offerton, Stockport SK1 4DQ Tel: (061) 4779042

WELSH

Hon. Sec: Philip Swain, 7 Elm Close, Underwood Estate, Llanmartin, Newport, Gwent NP6 2HT Telephone: Newport 413227

On Wednesday, 8th October we held our annual match at St. Pierre Golf Club against our friends from over the Severn.

We were treated to some fine weather for the time of the year and I would like to thank David Jones the Course Manager and the rest of the staff for presenting the course in such good condition.

We would also like to thank the management of the St. Pierre Golf Club for giving us courtesy of the course and club facilities and thank the catering staff for their excellent food.

The competition was well contested yet again with the South West coming out on top for the second successive year, by four matches to two.

> RESULTS: Ted Thompson and Philip Swain won 3 & 2 Dennis Jones and John Walsh won 4 & 3 Graham Cox and George Clarke lost 5 & 3 John Hopkins and Graham Whissett lost 2 & 1 Henry Fry and Walter Jones lost 2 & 1 Huw Morgan and Dennis Archer lost 2 & 1

I would like to thank the South West team who helped make the day such a success.



MIDLANDS

Hon. Sec: Steve Wood 58 Guerney Road, Beechdale, Walsall

Telephone: (0922) 611380

On Monday, October 27th the Final of the Rigby Taylor Greensomes Competition took place at the Berkshire Golf Club. The result was a 3 & 2 win for Steve Wood and Tony Jesson over Arnold Phipps-Jones and Geoff Porter. As with every final of this event the four finalists were chauffered to the venue, wined and dined in style by our good friend, Dave Morgan.

Little Aston Golf Club was the course used for our Autumn Tournament held on Thursday, October 30th. This was a 27 hole Medal Play event played in the most appalling weather conditions, players having to contend with gale force winds and heavy torrential rain for most of the day.

The results were as follows:-

1st Greenkeeper Nett: 1st Greenkeeper Gross: A. Lewis 1st Overall Nett: R. Ramsden (Class E) 1st Overall Gross: S. Dickenson (Class E)

Our thanks to Alan Boraston and his staff for presenting such a good course in very difficult weather conditions.

Forthcoming Events:

Monday, January 12th, 7.00 p.m. to 9.00 p.m. Lecture by Watermation To be held at Moor Hall Golf Club

Monday, February 9th, 7.00 p.m. Mr. Mottram of Race Heath, College, on the subject of Man Management Again to be held at Moor Hall Golf Club

Friday, March 20th, 2.00 p.m. to 5.00 p.m. Lecture and On Course Demonstration by Midland Tree Surgeons Telford Golf and Country Club

NORTH WEST

Hon. Sec: David F. Golding, 38 The Grove, Flixton, Manchester M31 3JH Telephone: 061-748-8592

Autumn Tournament:

Our Autumn Tournament attracted forty members to Pleasington Golf Club, Blackburn. Past Chairman Mike Sheehan won the Ransomes Cup and Watch after a close fought battle with Chris Hulme from Sale Golf Club. It took a card play off to decide the winner.

I could not say that Joe Gillet was over confident in retaining the Hargreaves Cup for the over 50's, but he did not return the trophy and true to form he went out and won again! Don't forget next year Joe or people will think you have weighed it in.
The guests prize was won by Frank
Garvey of Rufford Top Dress.

We must thank Pleasington Golf Club for allowing us to play on their excellent course.

Jacobsen Qualifier:

Howard Roberts & Derek Hutcheson represented the Section at Hunstanton Golf Club. Peter Shaw of course won the 1985 trophy, played earlier this vear.

Unfortunately neither was successful but had a very enjoyable couple of days courtesy of Jacobsen.

Good luck to Peter when he represents the Section and greenkeepers in Phoenix next year.

Kubota Challenge:

Peter Shaw together with Andrew Peel were part of the successful Greenkeepers team who again won the trophy after beating the Secretaries team and the Stewards. Well done lads. I trust you left the Belfry as you found it.

Gatley Golf Club's Head Greenkeeper Simon Grayson was involved in a car accident towards the end of October and suffered multiple fractures. We trust he is making a steady recovery.

The Future in the North West:

After the announcement of the results to re-unite the three Associations the Section Committee were delighted to see that a very high percentage were in favour of a new Association.

How will this decision affect the North-West? We are still deliberating with E.I.G.G.A. North-West but a meeting has been arranged and the future is exciting for all in the region. More new will follow in the near future.

1987 Seminar:

Final arrangements are now in hand for next year's Seminar to be held at Mere Golf & Country Club on March 12th 1987. Tickets will be available from January 1st 1987 cost £15 including lunch. A list of speakers will appear in the next issue of the Journal.

Will Secretaries please note the next issue is combined **December and January**

BRITISH **ASSOCIATION GOLF COURSE** ARCHITECTS

MEMBERS (Full)

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SENIOR MEMBER

Fraser Middleton 15 Kilmaron Crescent, Cupar, Fife KY15 4DS, Scotland Telephone: 0334-54904



APPOINTMENTS

ROMILEY GOLF CLUB

(18 Hole Course)

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From persons of proven ability with suitable qualifications and experience in all aspects of course management, who have a thorough knowledge of machinery maintenance and also the ability to direct and motivate staff.

Salary negotiable - no accommodation.

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marking your envelope "Private and Confidential"

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Henton & Chattell Ltd, London Road, Nottingham, NG2 3HW. Tel: 0602 862161.

W. Mountain & Son Ltd., Bank Avenue, Morley, Nr. Leeds Tel: (0532) 531201-6. Contact: A. C. Mountain.

Rowes of Chichester, D. Rowe & Co. Ltd., The Hornet, Chichester, West Sussex PO19 4JW. Tel: Chichester (0243) 78810. Telex: 86110. Contact: D. Strange or J. Burfoot.

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Wright Rain Ltd, Unit 3D3, Thorp Arch Trading Estate, Boston Spa, Wetherby, Yorks. LS23 7BJ. Tel: Wetherby (0937) 845788

Cameron Irrigation, a Division of Wright Rain Ltd., Harwood Industrial Estate, Littlehampton, West Sussex BN17 7BA. Tel: (09064) 3985. Telex: 877483.

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As part of their commitment to continual product improvement I.C.I. Professional Products have developed 'Holdfast' D a combined grass growth retardent and herbicide containing paclobutrazol and dicamba. 'Holdfast' D is a unique soil acting growth regulator taken up by the plant roots and controlling grass growth by preventing the production of the growth hormone gibberellic acid. In addition to controlling the growth of all major grass species 'Holdfast' D will suppress many broad leaved weeds found in amenity areas.

'Holdfast' D offers many advantages over other commercially available grass growth retardents, the major one being that its activity is not reduced if rain falls immediately after or even during application in fact initial uptake is aided by rainfall.

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Commenting on this latest introduction Keith Cleverly, Business Manager for I.C.I. Professional Products said "'Holdfast' D is yet another example of a product introduced by I.C.I. through listening to the needs of the customer and developing a product to suit those requirements".

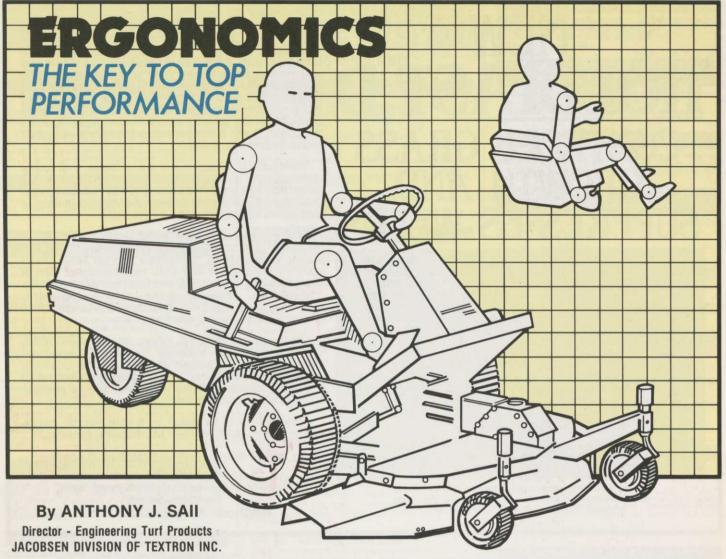
'Holdfast' D is supplied in 5 litre plastic packs containing enough product to treat one hectare.

For further information on 'Holdfast' D contact:

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It's called ergonomics, human engineering, biotechnology, life science engineering but what it boils down to is fitting a machine to man. At first glance this might sound like the obvious thing to do but that's not always been the case.

Human engineering at too many firms was a matter of making certain the chief engineer or sales manager was comfortably operating the machine, be it an auto, truck or tractor. That he may have been 6ft 4in. tall and weighed in at 18 stones made little difference. Obviously, the operator at the other end of the physical scale was in for trouble when assigned to that piece of equipment.

The impetus for human engineering came during the twenties and thirties when designers began improving the appearance and configuration of mass produced items to increase sales. That's the period when industrial design became a profession dedicated to incorporating usefulness, comfort, safety, ease of maintenance, sales appeal and good looks in a finished product.

This approach was honed into a science during the 1940's by the armed services with the evolution of a new class of machine that required close integration with man's total abilities. That's when anthropologists, behavioral psychologists, biologists, related an environment to man's size, strength, endurance and reactions.

Since then there was a brief setback of sorts in the fifties and sixties when occasionally too much emphasis was placed on styling. In one such instance an engine couldn't be fitted into the stylist's creation! And, of course, there were still plenty of engineering-oriented firms that designed machines first, then fit operators to them.

COMFORT ISN'T CODDLING

In the agricultural field during the mid-sixties, manufacturers began to realise they were selling to rural industrialists rather than to farmers. The number of small farms had dwindled while larger operations had become commonplace. These firms re-defined their market and saw the importance of areas they had neglected - comfort and how it relates to performance.

The same evolution had been taking place in the turf maintenance equipment industry. Apart from the simple fact that there is no reason for a machine to be uncomfortable or hard to use, there was (and is) increasing emphasis on the users' bottom line-productivity (and safety). Efficient performance, the ability to mow for eight continuous hours, called for a design approach interfacing man and machine. In other words, the design started with two known quantities: the operator and the machine's primary function. Between the two lay considerable human engineering.

Going by the form-follows-function rule, at Jacobsen we do everything to maximise operator efficiencies and machine productivity. This is no simple task as it calls for interrelating a variety of human engineering and other design factors. Productive comfort and safety head the list closely followed by serviceability, manufacturability and rationality (sometimes called product commonality). Once these design criteria are served, we pay attention to appearance, making it look good. In all, some 20,000 pieces of scientific information have been distilled into the system used to scale a design to fit the ideal range of human size, reach and the like.

Examples of our attention to human engineering are easy to see in Jacobsen equipment such as Turfcat riding rotaries and HF-5 and HF-15 mowing tractors.

COMFORT/CONVENIENCE

Take comfort and convenience which combine a multitude of consideration. All three of these machines feature front-mounted cutter units to make it easy for the operator to see where he's trimming. The Turfcats and HF-5 mowing tractor use hydrostatic transmissions to eliminate shifting and clutching, allowing the operator to focus on mowing. To optimise manouverability, each features rear wheel steering, and on the HF-15 the reels turn in the direction of the machine.



Another convenience of the HF-15 is that its reels are hydraulically powered making the cutting frequency pre-set by the operator independent of the unit's speed. The operator's seat is fully padded and adjustable and controls are situated to keep a person safety in a seated position. Levers for raising and lowering cutter decks and reels are within easy reach. Cabs available for the Turfcats and the HF-15 have positive ventilation systems to keep dust out.

To enhance comfort by reducing fatigue, engines have been isolated, minimising vibration and reducing temperature. Sound is controlled by muffler systems and special ducting. Even colour plays a role, with the bright company orange contributing to alterness and making the units easy to see.

SAFETY

Safety, comfort and convenience often overlap. For example, colour contributes to safety, as does good control and careful placement of the operator relative to moving parts. Stability is important, too. A wider track and lower centre of gravity also enhance the kind of sure footedness needed for mowing along the sides of slopes.

SERVICE AND GEOGRAPHICS

While not directly related to operating machines, serviceability certainly becomes a human engineering consideration for routine maintenance and occasional repairs. Obviously, areas for attention like the battery, oil dip stick, plugs, points, lubrication, belts and so forth should be readily accessible and easy to work on. So engine shrouds and other panneling open fully to expose areas that need to be looked after periodically, as is the very functional approach to their controls. In bigger machines and other tractors we have even positioned the battery on the outside of the machine where it's easy to check. Other components are not enclosed if they don't require it. That is, merely to serve the cosmetic side of product design.

OTHER CONSIDERATIONS

Geographics enter the human engineering equation, too, since the machines must be operated under varying conditions ranging from the sunbelt to the snowbelt.

Manufacturability and rationality also play roles. That the design must be manufacturable is self evident but rationalisation is often misunderstood. The ability to rationalise certain components, making them interchangeable from model to model, means a whole lot more than keeping prices competitive, as important as that objective may be. Other primary goals are creating a familiarity of controls from one machine to another, the convenience of stocking fewer spares, and the ease of maintenance when machines are

So the human engineering side of product design is quite complex with a multitude of factors to be considered from the outset before a prototype is built.

And even when working models have been constructed, human engineering remains a key consideration in the thousands of hours of field testing, with many modifications made relating to a wide variety of actual operating conditions.

So next time you ease into the seat of a new turf machine and feel comfortable with the controls, can see the cutter decks without bending and so forth, give a silent thanks for the progress in human engineering. And, if you're of average height, a thanks that the machine wasn't designed to fit a 6ft. 4in. overweight chief engineer of days gone by.



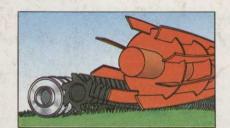


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