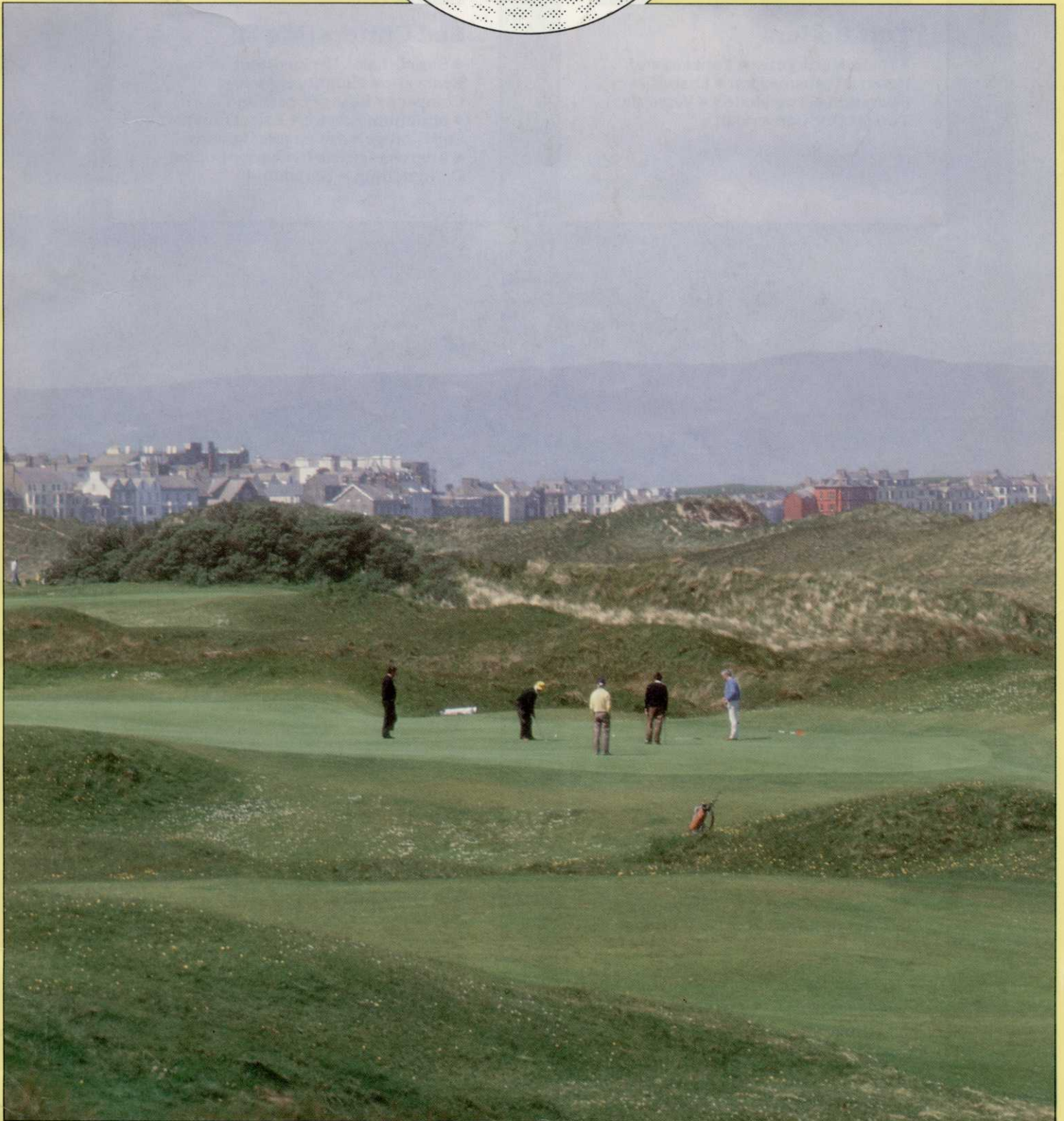




SEPTEMBER '87

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Greenside Comment...



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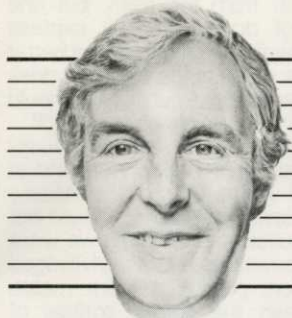
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John Lelean

What's done, needs to be seen to be done

In January this year the newly formed Association of British & International Golf Greenkeepers' came into being, formed by the amalgamation of the long established British Golf Greenkeepers' Association, the southern based English & International Golf Greenkeepers' Association and the Scottish Greenkeepers.

This coming together, following years of acrimony among certain members of the greenkeeping profession, was precipitated by the Royal & Ancient Golf Club of St. Andrews in the interest of furthering the future and recognition of those men who maintain our golf courses, without whom there would not be a game to play.

Such a move was welcomed by all sections of the golf industry, the greenkeepers themselves, the controlling bodies in golf and those who come under the general heading of - Trade.

All accepted the work involved in organising an Association could no longer be left to honorary officers regardless of their dedication and must be the responsibility of a full-time official.

The decisions made twelve months ago should now be bearing fruit, but greenkeepers

nationwide are asking - WHEN, and so they might.

Last month the National Greenkeepers' Tournament held at Verulam Golf Club, St. Albans, was organised by the Mid Anglia Section of the now defunct BGGGA. It was a highly successful tournament, patronised by many of the active participants of previous years, in fact the majority of competitors were the 'Old Faithfuls'.

This year there was no Annual General Meeting for the new Association and greenkeeping business was confined to informal discussions in the 19th hole.

The Chairman Mr. Walter Woods did attend and said a few words at the conclusion of the prize giving, but the newly appointed Executive Director Mr. Neil Thomas did not. He was said to be moving house to Bingley where his office will be incorporated within the headquarters of the Sports Turf Research Institute.

Cautionary words of advice from many quarters warned of the dangers of rushing into the new venture. Advice largely ignored by its architects, for reasons best known to themselves.

To bring together three distinct, separate bodies, each with its own administration, varying philosophies and regional differences requires delicate negotiation and a degree of diplomacy.

What has now been created is a vacuum. The old groupings have gone and the new, as far as greenkeepers are concerned, is not functioning.

This could have been avoided if the BIGGA had been set up as an umbrella association with three individual associations continuing to operate until the time was ripe for a smooth transfer.

Finance has never been a problem. As reported last month the R&A in a massive grant payment to various golf bodies around the world allocated £37,500 to form the new Association.

Greenkeepers are expecting positive action from their management committee, with the priorities of improved status, better working conditions, an enhanced training scheme and an agreed salary scale reflecting their contribution to the game of golf. So far, all they have received are promises.

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NEWS ROUND-UP

PEOPLE, PRODUCTS AND DEVELOPMENTS
IN THE GOLF COURSE INDUSTRY

'Why is it that all the news that comes out of Northern Ireland is bad?'

This was the question put to golf writing colleagues over dinner in the magnificent club house at Royal Portrush.

'Because that is what the English want to read', was the reply.

Unfortunately the answer was not far from the truth, but one cannot do more than express sorrow that so much of the better facets of life in the province does not receive the publicity it should and that certainly goes for golf.

The reception and hospitality enjoyed over a long weekend at Royal Portrush and the nearby Portstewart Golf Clubs could not be faulted and although we were in somewhat of a privileged position, playing a team match between the golfing scribes of Yorkshire and our counterparts from the Belfast press the reaction of others from the mainland to the golfing delights of County Antrim confirmed similar feelings.

The Northern Ireland Tourist Board have what must be one of the hardest jobs in the world to convince people that Ireland is the place to go for a golfing holiday. What must be even more frustrating, is the fact, they have a product that is quite superb.

Royal Portrush, regarded as one of the top courses in the British Isles hosted the Open Championship in 1951. It is the only course in Ireland to have done so and fittingly, was won by Max Faulkner. If ever a links was worthy of staging the event again, it must be here, but sadly,

Continued page 5

Northern Ireland – A Golfing Paradise



The pictures of Royal Portrush Golf Club (front cover and this page) have been provided by courtesy of the Northern Ireland Tourist Board.

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the ugly side of politics must forbid any such consideration in most of our lifetimes.

Laid out by Harry Colt in its present form it was described by Bernard Darwin a golf writer who stands tall even in the company of men such as Henry Longhurst, 'as a monument to Mr. H. S. Colt, more enduring than brass'.

Every hole is a challenge, even those that seem reachable with no more than a good drive and a pitching wedge to the putting surface. The famous 5th-hole is a case in point. It was here the ravages of the Atlantic Ocean undermined the cliff face and the green almost fell into the sea. Members and golf lovers the world over rallied round and raised sufficient money to build a retaining wall to hold the green in place.

The Dunluce Course, better known of the two at Portrush (the other is the Valley) is the favourite of Fred Daly, the only other Open Champion from Ireland. He was born at Portrush and though now in his seventies is still a far better than average player.

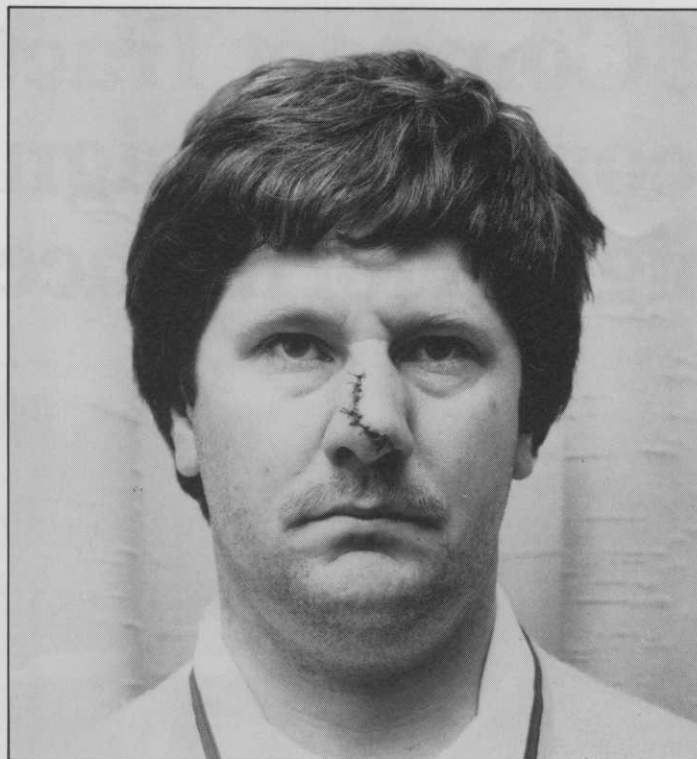
The Causeway coast is also renowned for one of Ireland's best known exports - Black Bush. For those who have not imbibed a 'drop of the Irish' they have a treat in store.

The distillery at Blackbush dates back to the beginning of the 17th century when a licence 'to distil whiskey' was granted by James I. It is now exported to 106 countries around the globe.

Each year in June, Black Bush sponsor the Causeway Coast Amateur Golf Tournament, played over the links at Royal Portrush, Portstewart and Castlerock. Entries come from all over the world and this year there were golfers from Canada, the USA, Australia and Zimbabwe as well as strong contingents from the UK.

The weather was not especially kind for the tournament, but to quote a phrase 'the price was right' and there was always the whiskey to provide the internal warmth.

NEWS 1



(above)
Eric Green needed 17 stitches in his nose when a plastic coupling broke off the control valve.

(below)
Eric shows the broken valve.



One of the leading members, Bill Hawthorn of Watermation Ltd. has commented.

The horrific accident to Eric Green, Head Greenkeeper at Woodcote Park Golf Club resulting in facial injury occurred because of a failure of the plastic nipple underneath the manual hydrant. Failures of this nature are not uncommon if this method of installation is used. For this reason many years ago Watermation devised a different method of mounting valve assemblies at the greens having the hydrant supported on a metal nipple attached to a robust metal tee, in order to withstand the mechanical loads which inevitably are placed upon the hydrant when hoses are attached.

Toro, whose General Manager Peter Roberts is Chairman of the Association, has recently published a guide entitled 'The Thinking Man's Guide to Golf Course Watering', a publication that all golf green committees should read before asking companies to submit tenders for irrigation systems.

Naturally this booklet is biased towards the Toro product as any sales literature should be in a competitive market.

Other systems, such as that marketed by Watermation, could suit a club equally as well. The club must seek tenders for the product that best fits their need within a price bracket they can afford.

What they must not do is to take the lowest price, without ensuring the system fully meets safety standards and their staff are not put in a position of danger.

We are publishing the photographs of Eric Green's injuries, not from a sense of tabloid press sensationalism, but simply to bring home to Greenkeepers and those involved in Golf Club Management, the need to be ultra careful when dealing with water under extreme pressure.

NEWS 2

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See your local Ford New Holland Tractor Dealer for full details and a demonstration.



NEWS ROUND-UP

NEW GREENKEEPER GOLF CHAMPIONS

Mel Guy, Head Greenkeeper at the South Leeds Club has won the National Greenkeepers News of the World Cup for the best gross score over three days at Verulam G.C. at his first attempt.

Mel, has been a greenkeeper for only two and a half years, stepping into the job, when he was made redundant as a fabrication engineer.

A six handicap member at South Leeds he had often helped the club with engineering work and then made the decision to move permanently to greenkeeping. Eighteen months ago he was appointed Head Greenkeeper, but still remains a playing member at the club.

His gross score of 79, 73, 79 for a 231 total, although higher than most winning scores over the past few years was enough to get his name on one of the most prestigious trophies in amateur golf.

Congratulations are also due to the Northern team who won the Team Championship for the first time in many years.

Backing Mel Guy were Mick Hannam from Moortown and the evergreen Don Roberts, the retired greenkeeper at Bradford's West Bowling. Their total three day score was sixteen shots ahead of the field.

It is also worth a mention that Mick Hannam, Captain of the club at the 9-hole Roundhay course last year achieved the first 'ace' of his career in a recent monthly stableford. Although he finished with 35 points, he was still nine points adrift of the winner. Not surprising to those who know the scores put in by some of the Roundhay members in the local pro-ams!

MONDAY, 17th AUGUST

1st	I. Toon	Nett 65
2nd	P. Fitzjohn	67
3rd	G. Payne	68
4th	D. Roberts	69

Over 60's R. Plain 73

Maxwell Hart Trophy		
2nd	R. Thompson	73
Coming of Age Cup		
3rd	R. Gates	80

TUESDAY, 18th AUGUST

36 Holes Scratch

R. S. Barker - 149
Toro U.K. Trophy

36 Holes Nett (0 to 11)

I. Toon - 130 Ransomes Cup		
2nd	M. H. Guy	140
Universal Cup		
3rd	M. Sheehan	141
Golf Illustrated Cup		
4th	Martin Smith	142
5th	P. Fitzjohn	142
6th	E. R. West	143
7th	J. M. Hannan	144
8th	D. Murtagh	144

36 Holes Nett (12 to 18)

D. Roberts - 138 Pattison's Trophy		
2nd	P. Wentworth	140
President's Cup		
3rd	N. Whittaker	145
May's Cup		
4th	I. Holoran	146
5th	A. Panks	148
6th	J. Wells	148
7th	P. Malia	151
8th	B. Moss	151

JUBILEE CUP

NORTHERN (422)

M. H. Guy
D. Roberts
J. M. Hannan

18 HOLES NETT:

1st	Martin Smith	65
Hamilton Stutt Cup		
2nd	R. S. Barker	65
Supaturf Challenge Cup		
3rd	I. Toon	65
4th	M. H. Guy	67

PAST CHAIRMAN'S CUP

J. Richardson

VITAX KEY TROPHY

36 Holes Putting Competition
P. Nason

WEDNESDAY, 19th AUGUST

18 Holes Medal

1st	J. Cole	66
Fisons Bowl		
2nd	P. Wentworth	66
S.T.R.I. Cup		
3rd	R. Howlett	68

54 Holes Best Nett

1st	P. Wentworth	206
S.A.I. Longlife Trophy		
2nd	I. R. Toon	206

54 Hole Scratch Championship

M. H. Guy — 231
"News of the World" Bowl

NEWS 3

CADDY OFFER

A small advertisement in the Yorkshire Post under the Personal Column is expected to produce a deluge of replies. Headed - Unattached Gentleman Golfers, it read; 'Do you require an attractive tall blonde lady caddy in her early 40's, with perhaps hopes of forming a friendship off the course. There is no indication whether she was prepared to carry or required a trolley.

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Echoes from the long, not so hot summer.

... by Fred Hawtree

Another mish-mash of delicately balanced social, technical, historical and personal gossip from the fluent pen of you know who.

South-Westerly

Spoke to Bill Pile, Devon and Cornwall Secretary, on the telephone. How was he getting on since he left the Downes Crediton Golf Club and started travelling the West Country on behalf of D O Hunt Limited of Devon? They supply everything for the golf course, except machinery!

He likes the life, he likes the job, he likes meeting his members more than ever before. In addition to golf greenkeepers, he also calls on bowling greenkeepers or, more usually, the bowling club committee. They get some useful advice as part of the deal. One club was told to cut back

trees and bushes to get some light and air to the rink. This was so effective that they slashed their order for fertiliser from 50 to 25kgs. Bill was still happy: "They'll come back again".

Don Hunt, founder of the firm and President of Bill's Section, is Chairman of the Green Committee at the Teignmouth Golf Club on Haldon Moor. If you have ever played at Mont Agel, you will remember the view of Monte Carlo harbour spread below you as you look over the back of the old 4th Tee. The club house at Haldon offers you an equally impressive panorama, even if the yachts are less opulent and the River Teign differs in certain important respects from the Mediterranean.

Jack Moor's new office and machinery sheds are also impressive. The staff dining room has fridge, cooker and all, not to mention the pink curtains.

Some bright firm should sponsor a Ground Staff Quarters of the Year competition. It might encourage any clubs still living in the corrugated iron era to see how it should be done.

They are now in deep shock and grow wild-eyed whenever they hear the word 'golf'. The members of the British Association of Golf Course Architects still try to fit the golf course to the site, not vice versa, and hope that a simple diet and devoted nursing, accompanied by gentle repetition of this message, will restore Caradon's faith in humanity and hope for the future.

Beyond the Tamar

Being in Caradon recently, (Caradon? Caradon?, you ask. It is the first bit of Cornwall beyond Plymouth). I took time out to cast a jaded eye over the new St. Mellion. After passing below the flags of all nations at the entrance and through two rows of black blobs, which turned out to be spherical pine trees, I was apprised of the green fee. (£25 to play the 'Nicklaus' but knock off a fiver if it's with a member).

So I walked past the back of the 9th Green instead but haven't slept a peaceful wink since, due to nightmares in which the earth rolls and heaves on a scale far beyond anything which Richter could devise for your average seismograph.

Volcanic ranges have popped up between fairways as the earthquakes proceeded and there are ant-like machines crawling all over them to cut the grass. The foothills are very much in play and most of the peaks as well. If this is a stadium course, there did not seem to be a lot of elbow room for spectators, but I only saw one or two holes. At least they will get good exercise on 'them thar hills', if their ankles stand up to it.

I do not know what Cornwall did to deserve this fate, but J Nicklaus has certainly put his stamp on it and nobody will ever be able to rub it out.

Unfortunately the local planners, after years of jealousy guarding their farming hinterland, have got a little bit of Ballybunion crossed with the Grand Canyon slap in the middle of it. Even their attempts to oppose further building development were frustrated owing to the employment which it would attract.

By the Plym

On the way back to Sludgecombe, filial piety demanded a diversion to look at the 9 hole Elfordleigh Golf Course at Plympton. Hawtree I designed it in 1930. (A month or so previously, filial and grand-filial piety had taken both II and III to Highwoods Golf Club at Bexhill. The greens had sunk a bit on the filled side in the sixty years since their construction, but were still puttable and not much else had changed).

Elfordleigh was an early venture in the hotel-cum-golf course development. It did not do so well as its contemporary, the Selsdon Park Hotel, but then Selsdon was only nine miles out of London and on a much grander scale. Nevertheless, Elfordleigh has survived its ups and downs for nearly 56 years under various owners. Now it is on a high.

There is a brand new pro's shop by the 1st Tee. There are more tees and bigger tees, some with stone walls holding them up to make full use of the limited space.

The site has fairly strong slopes and a stream, so you can guess the final development at the bottom of the valley. Only one guess, I'm afraid. That's right - a water hazard.

Incidentally, I looked out the ledger to see how much Elfordleigh cost in 1935. You can have as many guesses as you like for this one. The answer is £2,500. 400 times less, proportionately, I understand, than its new competitor on the other side of the Tamar, but 'fings', in case you hadn't guessed, 'ain't what they used to be'.



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Westward Ho!

John Davis, Secretary of the Royal North Devon Golf Club has given me a file containing my father's advisory reports on Westward Ho! links from 1926 until 1935, by which time, as a member of the Board of Greenkeeping Research at Bingley, he got the club to become subscribers to that developing organisation.

In view of the reaction in greenkeeping to the discovery that too much fertiliser is too much fertiliser, I skimmed through the reports to see what materials they recommended in those days. I summarise as follows:

- 1926- Dried Blood
- 1930 Malt Culms
Fish Guano
Compost
- 1931 7lbs Sulphate of Iron
3lbs Sulphate of Ammonia
to each cubic yard of
compost
(‘Neither more nor less’)
- 1932 ‘Discontinue S/A and S/I on
Greens 4,6,7,8,9 and 18.
The rest: 5lbs S/I
3lbs S/A
in 1½ cubic yards compost’
- 1933 Back to Dried Blood and
Malt Culms, in compost
- 1934 Poultry manure replaces
Malt Culms
- 1935 1 cwt Peruvian Guano in
1¼ cubic yards compost

‘What no Super?’ you ask. It appears just once, in the very last report: ‘3½lbs Superphosphate per Green in the August dressing with Rape Meal and Sulphate of Ammonia’. Why? Perhaps I can hazard a guess.

In 1932, T W Evans PhD, AIC, the chemist at Bingley, wrote in the Journal: ‘In conclusion, it can be stated that swards cannot be maintained indefinitely by a system of top-dressing with compost and nitrogenous fertiliser...’.

In 1931, Evans had said, ‘An occasional dressing with a complete fertiliser, providing the phosphoric acid and potash in it is very low, may be applied to greens on poor soil...’. But then he continues, ‘It cannot be too strongly emphasised, that the regular use of mixed fertilisers containing high percentages of phosphoric acid and potash is to be avoided...’.

Who led us astray?

‘Open’ University

The Observer’s Peter Dobreiner sounded a few alarms on behalf of the English adverb when he suggested what players’ comments might be heard during pre-Open interviews. ‘I am hitting it good but putting horrible’ was one of them. ‘I am playing solid enough’ was another. Alerted to the dangers, one became over-sensitive to the foibles of BBC commentators. In between

‘super- shots’, Tony Jacklin described one competitor as ‘fortuitous’ which seemed to cast an unnecessary slur on his parents who may very well have intended to have a golfer in the family. But Jacklin does at least believe in the preservation of the adverb. Indeed, he manufactures them and will turn ‘over-confident’ into ‘overly confident’ at the drop of a hat. I think I overheard a ‘routinely’ too. Time for Dobreiner to go to work on these as well.

Harry Carpenter turned a neat phrase when describing a par round in the wind and rain on the Friday. It ‘staggered belief’. My memory of belief up to that time had been that you begged it. Edwardians would sometimes express amazement by ‘Well, I’m beggared. This may have been a mild form of a stronger expression to which people take less exception to-day, but it sounds a shade old-fashioned. I will ask my grand-children if that traditional game called ‘Beggard your neighbour’ is still an acceptable pastime among the young or has been toughened up so that they stagger him now?’

Belief was both staggered AND beggared by David Miller, writing in The Times when he described the 7th at Muirfield as ‘illusory’. One knew what he meant but have you ever tried cutting a hole in an illusory green? It’s easy if you have got an illusory hole-cutter.

Royal Guest

It was a pity that King Hassan II of Morocco had to cancel his golfing trip to Scotland and perhaps to the Open, due to pressure of work back home after his State visit to Britain. While he was here the Press never missed a chance to score a point over his punctuality, protocol and private entertaining. There was a good deal more about the fact that he was five minutes late for lunch than there was about who else was there. They forgot that the King is a golfer and has never yet been penalised for an infraction of Rule VII.7, although I should be surprised if it ever got into the Arabic version.

When the Queen went to see him, much was made of her lonely vigil in a tent in the middle of the desert and of her long wait for her dinner guest on the Royal Yacht a couple of days later. In my experience she was lucky that he even turned up on the right day. In humbler circles, I have responded to urgent calls for week-end consultations in Tetuan and waited until Monday before learning that the meeting had been put off for a week. Last Autumn I was bidden to a meeting at 11 a.m. for an audience with a Princess. At 1.30, we decided that she was probably

tucking into her cous-cous at some other table. You have to get into the *manana* mood if you are to earn your Queen’s Award for Export. Tap the foot, drum the fingers as she did and you’ll be out on your ear. The Royal Household also seemed to me to be asking for trouble when whoever writes the menu picked that sauce with 32 components to accompany the salmon. It is said that you can knock up a Sauce Bigarade, which has only 16 ingredients, in a matter of 25 minutes, though I should not like to try. But do not think that you will knock up this other one in 50 flat just because it has twice the number of working parts. They can not be spooned into the pot and stirred till ready. The ‘*saucier*’ has to get up early in the morning after a night of prayer and pure thoughts. Taking just two ingredients, he begins the rites. He is towelled down at intervals during the day by his aides as each critical stage is reached and another subtle element added. At 8.47 p.m., assuming the dish is to be served at 8.50 No. 32 goes in and a minute later the sauce is rushed to the table to be served at the peak of perfection.

The Spanish say that a good *paella* is always better when you get round to the second helping

because it has matured while you were scoffing the first. There are classic French dishes which must gently simmer or *mijoter* for a time if the ultimate blend of flavours is to be achieved. Not so this concoction on the Britannia. Keep it hot on the back burner for an hour and you might as well open a bottle of Heinz Tomato Ketchup.

But even if served in the new squeeze container, which deposits its contents on the floor when shaken instead of on the ceiling as the glass one used to do, I feel that some pretty sharp reprimands would have gone down to the galley if the familiar red bottle had appeared amongst the gold plate just because the guests sat down an hour too late.

P.S.

Only a month ago, I congratulated B I G G A on getting an ‘I’ into its title because it sounded like an Institute.

Now I am not so sure.

The Chairman of the Championship Committee at the Open presentation ceremony thanked the British and Irish Golf Greenkeepers Association for raking the bunkers.

Still, whether Institute, Irish, or International, the blazer badges will still be O.K.

FEATURE 1






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Tel: 0252 724525.

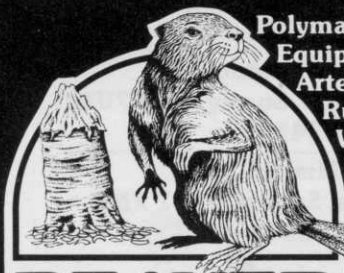
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Golf Club's Sports Forum raises £2,000

Moor Allerton Golf Club came up with an enterprising idea to raise funds to finance the construction of their new 14th hole during the Benson & Hedges Tournament played at Fulford.

Capitalising on the talent available in Yorkshire during the week, they recruited Peter Alliss, Tony Jacklin, Mike Parkinson and their own tournament professional Howard Clark to participate in a golf forum and then sold tickets for the evening at £10.00 a head.

For Peter Alliss it was a return 'home'. Moor Allerton was the club where he was appointed the consultant professional when the Trent Jones designed course opened twenty years ago. He stayed for ten years in a converted farmhouse with his good friend, Head Greenkeeper, Colin Geddes as his next door neighbour.

Moor Allerton's General Manager, Ted Goldberg, told Golf Greenkeeping it was a superb evening. Over 200 golfers packed the clubhouse, keeping the panel under the chairmanship of Mike Parkinson on their toes for three hours.

It will cost £12,000 to move the 14th hole, brought about because of complaints from an adjacent weekend caravan site, who had threatened injunctions after mishit shots landed among the campers. Work is now at an advanced stage with turf laid on a sand base. Later this year the new tee will be constructed and the hole brought into use by the spring of 1988.

The project has been so successful we hear further improvements to other parts of the course are in the pipeline.

So often when course alterations take place, committees see the only way of finance is a levy on the members. Moor Allerton have already raised half the cost organising sponsored events and expect the remainder to be in the bank by the end of the year.

NEWS 4

CHEERS

A member of the Highgate Golf Club, millionaire 'Rabbit' golfer, Mr. Edward Mowle has left £400.00 in his will to buy drinks all round in his club's nineteenth hole.

Mr. Mowle of St. John's Wood who died in January left £1,394,136



Picture courtesy of Yorkshire Post Newspapers.

Europe's Ryder Cup Captain Tony Jacklin, Michael Parkinson, Howard Clark and golf commentator Peter Alliss in fine form at Moor Allerton.

HA 1388

Gearing up for 1989 Ryder Cup

One of Britain's newest, yet highly regarded golf courses is already gearing up to host the 1989 Ryder Cup.

The Belfry at Coleshill, near Sutton Coldfield, recently conducted a comprehensive weed control programme, for both the Brabazon and Derby courses.

A two man team from Hodges & Moss, accomplished the task with the help of a special low ground pressure self-propelled sprayer in just two days.

The Belfry won many friends in 1985 and much respect when the European team won the Ryder Cup for the first time since Lindrick in 1957.

Lee Trevino the American captain said Derrick Ganning, the Belfry's course manager, was the '13th member of the European squad' as his tribute to the excellent condition of the course. A tremendous compliment and one of the reasons why the Belfry is anxious to ensure perfection for the return match in 1989.

NEWS 5

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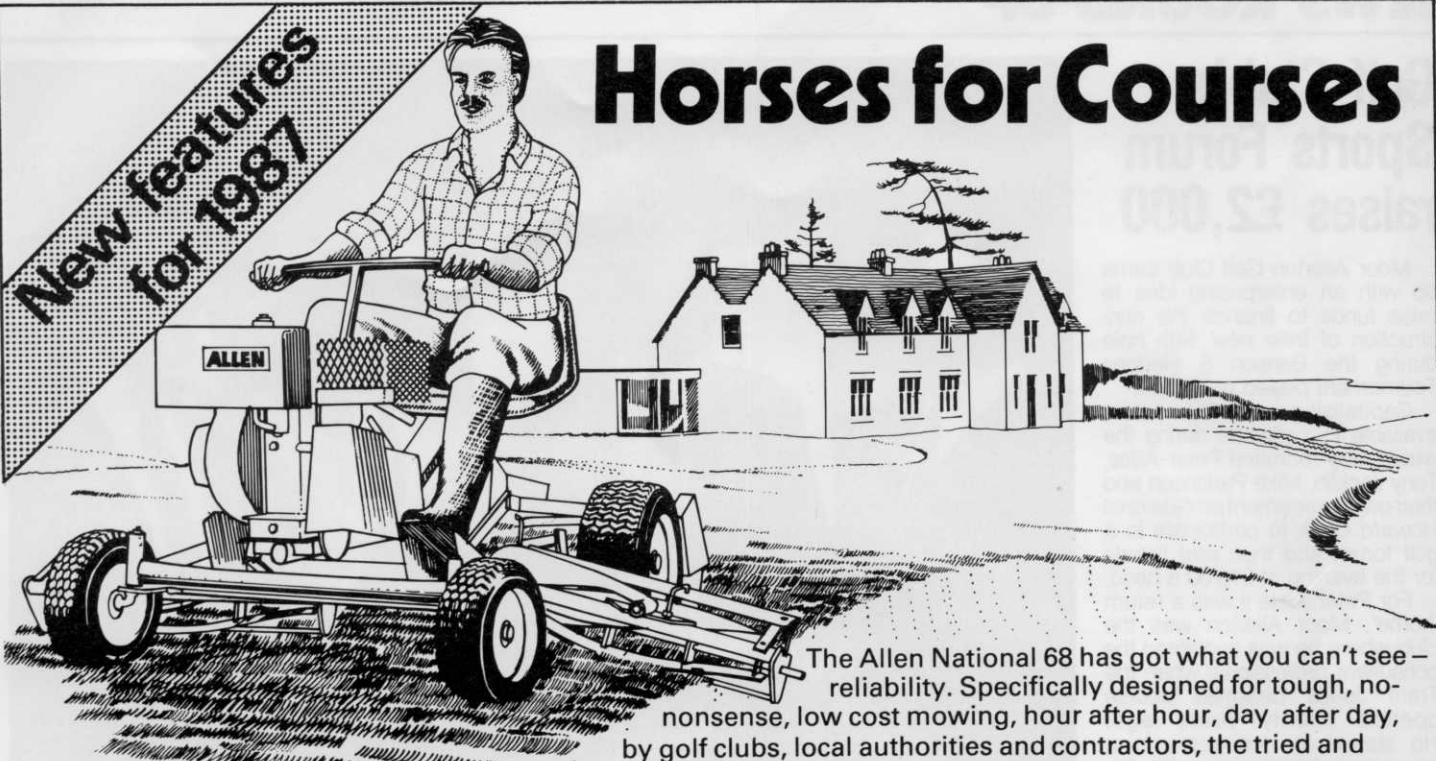
5 LITRES

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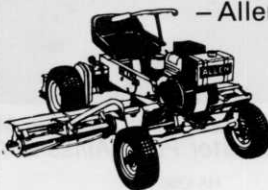
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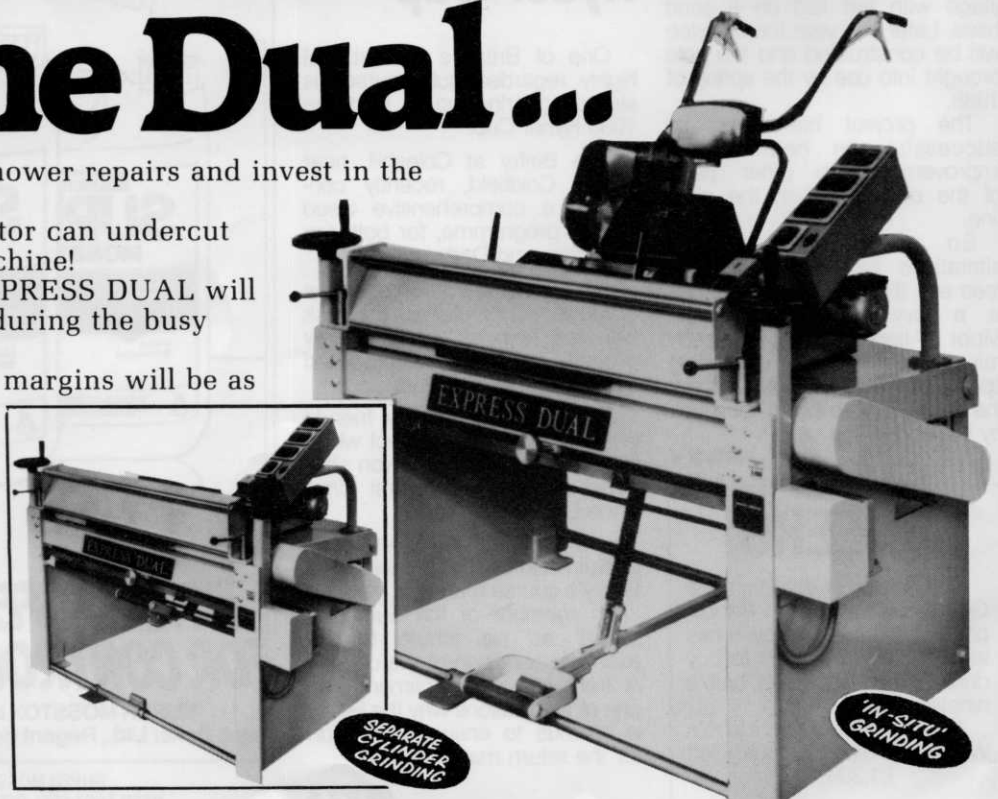
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Windsor Show set to break all records.

Over 50,000 sq. m. of display and demonstration areas have been booked for this year's loG Sports and Leisure World Trade Exhibition, the 42nd such event organised by the Institute of Groundsmanship. A record 342 companies will be taking part, displaying some of the latest developments from the UK and 27 overseas countries.

The exhibition takes place at the Royal Windsor Racecourse, Maidenhead Road, Windsor, Berkshire on 15th, 16th and 17th (Tuesday to Thursday) September, and will be open from 10.00 a.m. till 5.00 p.m. daily. Admission will be by catalogue costing £2.

Sixteen of the country's leading horticultural colleges will be supporting an extended Education and Training Centre at this year's exhibition. Participants include Askham Bryan, Aylesbury, Brinsbury, Cambridgeshire, Capel Manor, Cheshire, Evesham, Hampshire, Merrist Wood, Myerscough, Norwood Hall, Pershore, Plumpton, Somerset, South-East London, and South London.

They will be taking part with such bodies as the Agricultural Training Board, Amenity Grass Marketing Association, British Agricultural and Garden Machinery Association, the British Association of Landscape Industries, City & Guilds of London Institute, the Health and Safety Executive, the National Turfgrass Council, the National Playing Fields Association and the Sports Turf Research Institute.

Over 30 organisations will be demonstrating products on more than 11,000 sq. m. of working demonstration plots, with separate facilities being provided for irrigation equipment.

Two large marquees have been provided this year for exhibitors who prefer to be indoors. Pavilion A has been taken over by the U.S. giant Jacobsen, and Pavilion B will be occupied by a number of individual firms.

The 1988 event will take place from 20th to 22nd September, again at Windsor Racecourse; in 1989 from 19th to 21st September, 1990 from 18th to 20th September; 1991 from 17th to 19th September; and in 1992 from 17th to 19th September.

Recent surveys carried out for the organisers indicated that over a third of visitors attend to purchase at the exhibition, whilst 80 per cent come to inspect for future purchase. The average budget of visitors interviewed was £118,000.

SCOTSTURF '87

Scotland's major event for the sports and leisure industry - SCOTSTURF - will again take place at the Royal Highland Exhibition Hall, Ingliston, Edinburgh on Wednesday 11th November 1987.

Scotland's leading companies have already booked Stand Space at SCOTSTURF '87 - the 7th annual event organised by the Scotland and Northern Ireland Zone of the Institute of Groundsmanship - and a record number of 5,000 visitors from all over Scotland, Northern Ireland and the North of England are expected to attend: groundsmen, greenkeepers, local authority representatives, landscape architects, estate owners and managers, sports turf advisors, educationalists, students and trainees.

Admission to the Exhibition is free-of-charge.

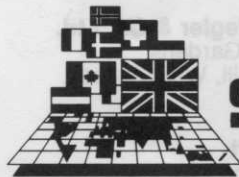
In addition some 250 delegates are expected to take part in the Seminar which is scheduled for the morning of the Exhibition, with top speakers lined up from all over the U.K.

NORTH-WEST SHOW

The annual Field Day, organised by members of the North-West Zone of the Institute of Groundsmanship, will once again take place at Haydock Park Racecourse on 29th/30th September 1987.

The show is designed particularly for the benefit of Zone members, groundsmen and greenkeepers in the North-West and, for that reason, it is limited to local companies and suppliers. Unlike the practice at the three national Exhibitions organised by the loG (Southport, Royal Windsor and Scotsturf) national manufacturers and suppliers can only take part on the stands of their local distributors. Exceptions, however, can be made when such regional representation is not available.

The North-West Zone has organised its enormously popular local show for the past nine years. Last year it moved to the new site at Haydock Park because of the much appreciated facilities it offers for working demonstrations of material and equipment, attracting a record number of 2,500 visitors to the event. The signs are that this year will be equally successful.



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C16-17

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Labour Pump Co. Ltd.
Denington Estate,
Wellingborough,
Northants NN8 2QL.

D56-57

Alginure Products Ltd.
Bells Yew Green, Tunbridge Wells, Kent TN3 9BT.

S13-14/49-50

Allen Power Equipment Ltd.
The Broadway, Didcot, Oxon OX11 8ES

C30-32

Allett Mower Co.
Unit 60, Burkitt Road Earlstress Ind. Estate, Corby, Northants.

L3-10

Bob Andrews Ltd.
Pontiac Works, Fernbank Road, Ascot, Berks.

T9-16

Robert H. Andrews Ltd.
The Garden Machine Centre, London Road, Sunningdale, Berks. SL5 0JJ.

E6-7

Anglian Sportsturf
Oliver's Farm, Maldon Road, Witham, Essex CM8 3HY.

D37-38

Aqua Pipes Ltd.
Darlingscott Road, Shipston on Stour, Warwicks. CB36 4DZ.

Educ. Pavilion

Askam Bryan College of Agric & Hort.
Askam Bryan, York YO2 3PR.

T1-8

Atco
Suffolk Works, Stowmarket, Suffolk, IP14 1EY.

S51-54

Atterton & Ellis Ltd.
Iron Works, Haverhill, Suffolk. CB9 8QH

Gen. Ave. 33-35

Axleline Eastern Ltd.
Station Road, Hubberts Bridge, Boston, Lincs. PE20 3QT.

Educ. Pavilion

Aylesbury College
Dept. of Agric. & Hort.
Hampden Hall,
Stoke Mandeville, Aylesbury,
Bucks. HP22 6AQ.

Educ. Pavilion

BALI
British Association of Landscape Industries.
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A1-3

BASF UK Ltd.
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S1-4

BP Oil Ltd.
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London SW1E 5NJ

J20-22

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Springwood Ind. Estate,
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Braintree,
Essex CM7 7RN

T17-25

Barrus, E. P. Ltd.
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Oxfordshire OX6 0UR

H69-70

Booker Seeds Ltd.
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Lincolnshire NG34 7HA

V55-56

L. D. Bourgein Oxford Ltd.
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A49-51

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V36-39

British Landscaping Equipment Co.
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PE6 9AR

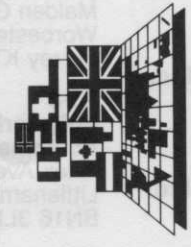
W23

British Overhead Irrigation
The Green, Upper Haliford,
Shepperton, Middx. TW17 8RY

ROYAL WINDSOR '87

- J22-23**
British Seed Houses Ltd.
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- D28-29**
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34 Wealdstone Place,
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Oxon OX12 8PH
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Elm Road,
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- B20-25**
Cameron
Wright Rain Ltd.
Ringwood, Hampshire
BH24 1PA
- V48-54**
Century Oils Ltd.
PO Box 2, Century Street,
Hanley, Stoke-on-Trent,
- Q12-15/35-38**
Charterhouse Turf
Machinery Ltd.
Pinks Yard, Church Road,
Milford, Nr. Guildford,
Surrey GU8 5JD
- C33**
Chelwood Tool Company
Chelwood House, Thornbury,
Bristol BS12 2JT
- E35-40**
Chipman Ltd.
The Old Goods Yard,
Horsham, Sussex RH12 2NR
- H66-67**
City Irrigation
Bencewell Granary,
Oakley Road, Bromley,
Kent BR2 8HG
- Educ. Pavilion**
City & Guilds of
London Institute
46 Britannia Street,
London WC1X 9RG
- R21-26/51-54**
Claymore Grass
Machinery (UK)
37 Dulverton Road, Witton,
Birmingham B6 7EQ
- E43-44**
Club Surfaces Ltd.
The Barn, Bisham Grange,
Nr. Marlow, Bucks. SL7 1RS
- J17**
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The Nursery, Paices Hill,
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- E81-83**
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Gloucestershire GL54 2EN
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Burgess Hill, West Sussex,
- V40-43**
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Thorpe Willoughby, Selby,
North Yorkshire YO8 0SE
- R33-39**
Dabro International Ltd.
Mill House, Mill Street, Prees,
Nr. Whitchurch, Shropshire
- C36-37**
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GL5 2BP
- V59-68**
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Nottingham NG13 9HT
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- A30-33**
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- D44-45**
Europlume Ltd.
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- Educ. Pavilion**
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Worcs. WR11 6LP
- D65-70**
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- O27-28**
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Kent TN27 9DU
- F11-13**
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- H27-30**
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- S26-30**
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Surrey GU1 1DL
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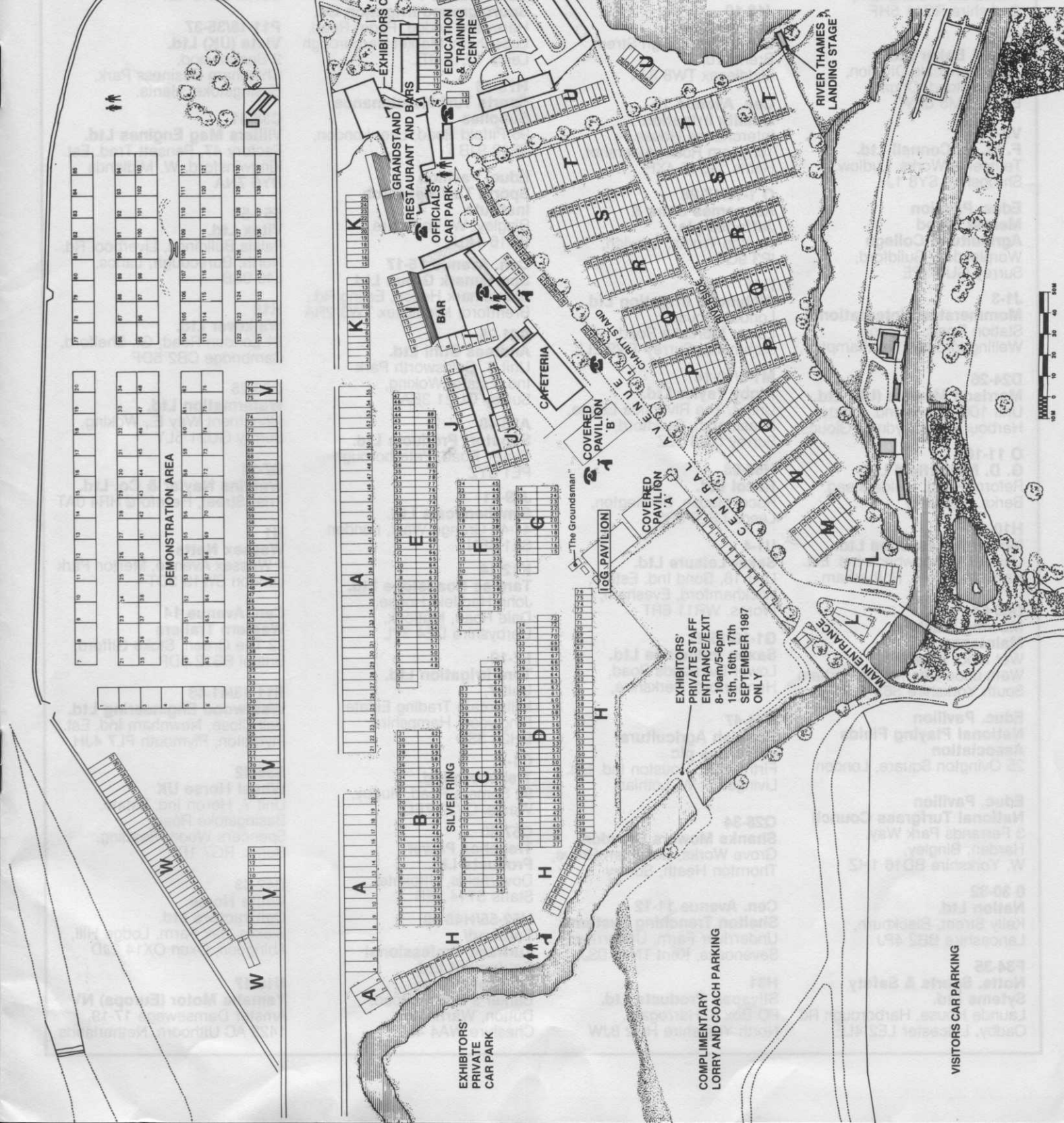
106 SPORTS & LEISURE

WORLD TRADE EXHIBITIONS

LANDSCAPING · MANAGEMENT · MAINTENANCE

ROYAL WINDSOR '87

The Exhibition will take place at The Royal Windsor Racecourse, Maidenhead Road, Windsor, Berkshire, from 15th-17th September 1987
 10am-5pm daily



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340

EXHIBITORS' PRIVATE STAFF ENTRANCE/EXIT
 8-10am/5-6pm
 15th, 16th, 17th
 SEPTEMBER 1987
 ONLY

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National Playing Fields
Association
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National Turfgrass Council
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W. Yorkshire BD16 1HZ
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SUBSURFACE AIR BLAST SOLVES SOIL PROBLEMS



Soil compaction, a widespread problem in sports and amenity areas, is quickly, effectively and safely alleviated with a sophisticated machine operated by a Suffolk-based contractor. It shatters the compacted layer or pan with a blast of compressed air and at the same time can inject fertiliser and other therapeutic materials to help rejuvenate stressed trees, shrubs or turf in danger of dying.

Colin Pryce, who runs this new soil conditioning service, points out that in the past soil problems caused by compression by machinery and treading were virtually impossible to overcome without surface disturbance or the risk of severe root damage. His German Terralift does little, if any surface or root damage, yet each blast loosens a saucer-shaped soil volume measuring up to 13ft across and 3ft deep.

"The only other tool that can shatter the soil to depth is a subsoiler, but this cannot be used round trees or on sports fields or any other amenity area without inflicting root damage or surface lifting and tearing", he explains. "The Terralift's effect is virtually all below ground and it does minimal root damage which if anything is beneficial because it tends to stimulate root growth.

The machine's other major advantage is that is simultaneously injects slow release nutrients like BASF's Floranid Tree and Floranid NPK into the soil cracks as they are being formed. This is far quicker and more effective than surface application or root feeding through auger or crowbar holes because the fertiliser is distributed throughout the root zone. As a standard practice he also injects 1mm to 3mm polystyrene granules to help prevent subsequent closure of the fissures.

The direct feeding of stressed trees with Floranid fertilisers has significant advantages. Floranid

Tree is specially formulated to relieve stress by immediately releasing major and trace elements to roots which previously had been unable to function effectively due to the compacted soil. For roadside trees the product's high potassium and magnesium content also helps to counteract the harmful effects of salt applied to roads during frosty and snowy weather. Floranid NPK contains the balanced range of nutrients essential for good tree and plant growth and like Floranid Tree some of its nitrogen is in slow-release (nitrogen Isodur) form, thus ensuring sustained growth.

The idea of launching an amenity soil conditioning service occurred to Mr. Pryce at last year's Institute of Groundsmen's show at Windsor where he saw the machine on BASF's stand (they recommend the Terralift for soil treatment with their Floranid fertiliser range). Subsequent enquiries indicated a considerable potential demand for such a service for jobs such as rejuvenating trees in building construction areas, where soil is compacted by machinery, and conditioning soil in goalmouth areas, cricket pitches and golf courses where excessive treading has caused poor growth.

The pedestrian operated machine is powered by a Honda 7 bhp four-stroke petrol engine which drives and industrial compressor serving two compressed air cylinders. The compressed air forces air at high speed and a pressure of 105 to 300 psi through the probe and out of three holes near the probe's tip and a split second later injects the beads and the fertillier (or other materials) through the probe and thence into the cracks produced by the compressed air 'explosion'; it also drives individual wheel motors and operates a hammer that rams a hollow steel probe up to 30in. into the ground.

"The volume and pressure of air can be varied according to soil conditions and the job in hand", says Mr. Pryce. "With golf greens and tennis courts, for example, one wants to avoid rupturing the surface and so the pressure and volume would be at the lower end of the range. I don't advise use of the machine in waterlogged soil, otherwise it can work under any soil conditions".

Cost of his service ranges from about £40 for soil conditioning around a large tree to £400 for treating a football pitch or the equivalent area of land. These prices include polystyrene bead soil improver mix injection but not fertiliser or other materials such as nematicides and fungicides.

In conjunction with BASF the Terralift will be demonstrated at the Sports and Leisure Exhibition at Windsor on September 15th to 17th.

NEWS 6

Editor's Note:

The 'Terralift' was seen in action on the tree lined streets of Munich last year, injecting BASF Floranid Tree deep into the roots.

The Munich authority have calculated it is cheaper to 'dose' a sick tree, rather than remove and replace it.

GOLF - Chinese Style

There is a new exotic oriental venue for competitive amateur golfers, who can play to a handicap of 12 or less.

The second mens open amateur championship for the people's Republic of China will be played at the Chung Shan Hot Spring Golf Club over four days commencing on 5th November.

Six days accommodation, including breakfast, two days of practice, entry fee, jet foil from Hong Kong, a buffet dinner on the first day and a Chinese Banquet on 7th November are on offer for a mere \$300 US dollars. (£140.00).

Unfortunately this price does not include the air fare from Heathrow to Hong Kong.

If any of our readers fancy making the trip the Editor has the entry form and would consider offers of sponsorship to join competitors and report the proceedings. He is also on good terms with the Course Manager.

NEWS 7

HA 1383

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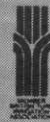
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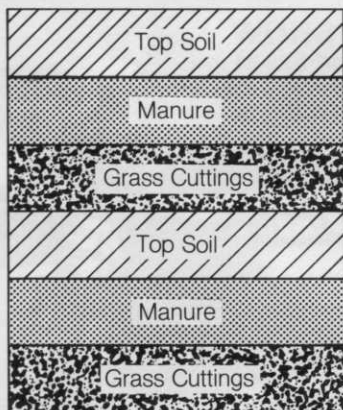
John Lowry's recipe for Quality Compost

Talk to John Lowery, the Course Manager at Ringway Golf Club, a runway or two from Manchester Airport and it will not be long before the conversation turns to his favourite subject - compost making.

John has been producing his own compost for many years and like the amateur wine buff it is a continuous process, whilst using the matured stuff, there are several other heaps fermenting away. The period is about the same time too, three to four years for a vintage brew.

The quantity used over a season at Ringway is 30-40 tons and a greenkeeper will need a fair area of suitable space to make up at least three separate heaps. The ingredients are simply good quality topsoil, grass cuttings and farmyard manure, laid in 12 inch layers and topped by 15 inches of top soil.

But let John describe how he builds the heaps between 5-6 feet high, but with settlement reduces quickly to around 4 feet as the rotting process accelerates.



"My grass cuttings are collected from heaps which I site in various hidden areas around the course. Copses and behind hedges are ideal sites, but you must also have access for collection. All grass boxes are emptied on them whether it is the GM3 from greens or 180 on tees. We never tip weed from bunker work, just clean cuttings. I did try leaves in the early days, but sometimes you could break down a heap after 4 years and leaves, like beech, ash and oak would still be intact! I have found a good local farmer who stores fresh manure for me and delivers it the following year, so by the delivery time the rotting down is well under way. He recently put up the price by £10 per 20 ton load and when I enquired about the price rise, he said feed had gone up and it was costing more to produce "the end" product!

I find the manure layer on top of the cuttings accelerates the rotting down process and the top soil gives body to the whole thing.

We now have a mature heap to put under cover - What do we require? A drying shed - nothing too elaborate. It is amazing what can be achieved with clear plastic sheeting, and 3'x2' framework supported by 8 posts, open all round or just at each end. The important point is a free circulation of air. My shed is an old corrugated barn bought for £50 and erected by a couple of members and myself over odd weekends. These sheds can also provide extra working areas during wet weather.

I use the Royer belt-type crusher to break down the material prior to riddling. For riddling I have the En-Tout-Cas rotary with Villiers engine. There is no waste from compost as all the coarse riddlings left over make super tee and shrub planting material with a very high food content. It also makes a good open rough layer on drain trenches prior to relaying the turf, allowing water through and providing a good rooting base. Better than sand and most top soils, considering the average bag of planting compost costs between £2-3. Another saving!

Labour is our next consideration. I found by utilising my labour, on wet days, instead of sitting in the shed or carrying out futile tasks we could produce 10 cwt. of compost. We all have those "in-between job" spells - times not to be idle - it all adds up and it saves your club money.

The most important aspect of making your own compost is you control the quality - like life you reap what you sow. A rough estimate of making your own material, I would say costs around £3 to £4,000 for the crusher, riddle and a cheap storage shed. Remember you have many years of cheap compost for that first capital outlay".

Quality compost for greens and tees, dependent on the transport charges and the availability costs around £20.00-£25.00 a ton. According to the figures calculated by John Lowery a considerable saving can be shown with the home-made variety. Including greenkeepers' time, purchase of manure, top soil, fuel and running costs of the machinery we can produce proven quality compost for £7.75 a ton, with a result saving to his club of about £400 a year. What is more it is there when he wants it and he is certain he could not buy better.

TECHNICAL 1



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Preparing a Greenkeepers' Job Description

It is now common practice in industry for those in positions of management to be provided with a job description.

This document is normally drawn up after considerable discussion between the job holder and his immediate superior, ensuring a complete understanding between both parties regarding the broad responsibilities of the manager's role and what is expected from him.

Few greenkeepers have a similar document, which is surprising when one considers most Committee Chairmen hold responsible positions in business and invariably have a job description themselves.

Several clubs have recently enquired whether a standard document exists and as a guide, and it must be emphasised it is only a guide, a format for a job description has been drawn up.

The job description must be individually produced because clubs need to put the emphasis on responsibilities in differing areas.

The job description should not attempt to state every task the greenkeeper is expected to carry out, but group activities under broad headings. To assist in clarifying thoughts when drafting the job description, think of the job relating to Money, Men, Machinery, Materials and Methods. These five M's will cover just about everything needed to control the day-to-day workings of a golf course.

A written agreement between the Head Greenkeeper and his Committee will go some way to creating a better understanding of individual responsibilities.

It must also be said it is not a tablet of stone and will require updating, as and when, the emphasis on working practices need to be changed.

JOB DESCRIPTION..... HEAD GREENKEEPER

RESPONSIBLE TO..... CHAIRMAN OF GREEN COMMITTEE

OBJECTIVE

To maintain the golf course to the standards as specified by the Green Committee, control daily work schedules of green staff, keep machinery and course equipment in full working order and produce programmes with time frames relating to course construction and improvements.

KEY TASKS

To maintain an inventory of course management equipment, keep records of servicing requirements and schedules, order and place repair requirements up to the value of £....., without reference to the Green Chairman.

Plan and effect the day to day maintenance of greens, tees and fairways. Ensure all grass areas are prepared to the height and requirements compatible to the playing capabilities of the course.

Control and manage the work of the green staff by active supervision. Ensure all employees are familiar with the requirements of their job and tasks allocated are carried out to the safety standards laid down by the Health & Safety at Work Act and the Acts relating to Pesticide Legislation.

All trainees will follow an 'On Job' training programme specified by the Greenkeeper Training Committee and released for their college based training as required. Regular assessments of progress will be made, recorded and communicated to the trainee.

A budget will be prepared annually for general maintenance requirements to include repairs and replacement of machinery, fungicides and fertilisers, sand, seed, turf and other items of expected capital expenditure (eg: irrigation, drainage, tree replacement and buildings). Records to be kept of all expenditure relating to the purchase of supplies, repairs and other expenses.

The Head Greenkeeper will attend such meetings as and when requested by the Green Chairman, supply documentation, give advice when required and act according to the instructions of the Committee.

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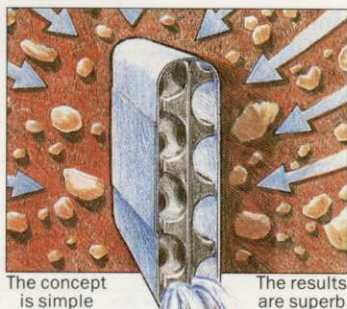
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FEATURES INCLUDE:

- Adjustable 'Multispeed' nozzle - controls the pressure from wide-angle spray to 200 mph/1000 psi pencil jet.
- Built-in chemical injection - allows you to induce detergents into spray - including a special 'Green' cleaner to control algae growth.
- Squeeze-grip gun controls the flow of water.
- Weighs only 38 kg - easily portable.
- Easy to use - just connect to hose, plug in and switch on.
- Delivers up to 9 litres per minute.
- Powerful 2.9 hp motor; 3-piston axial pump.

Only £225 + VAT (inc. P & P)

Saving up to £50.00 on the recommended retail price.

Please send me a KEW-Hobby pressure cleaner. I enclose my cheque for £258.75, including VAT, made payable to Wharfedale Publications Ltd., P.O. Box 12, Wetherby, West Yorkshire.

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ADDRESS _____

All Orders acknowledged on receipt. Allow 21 days for delivery.

Rumania to most of the present generation is an Eastern Bloc country bordering the Black Sea, with strong ties with its neighbour, the Soviet Union.

Although it lies behind the Iron Curtain, the bars are more akin to wire netting as trade and tourism between east and west develops year by year.

Formerly the classical Dacia and Scythia Pontica, as those who spent an industrious education will know, Rumania's additional claim to fame, by addicts of the Saturday night horror movies, is also the Transylvanian home of the monster of all monsters, Count Dracula.

Now Rumania has produced another export to the west, this time a prince of engineering achievement in the shape of the aptly named - Dacia Duster.

These four-wheel drive vehicles are without doubt the most competitively priced utility vehicles available on the U.K. market.

Starting with the four-wheel drive open Pick-up at a basic £4,150 (ex VAT) there are five versions in the range through to the 4x4 Duster GLX, a classy five seater estate car, that will take off across the roughest country and still look impressive outside the statliest of homes. All that for a total price of £6,500 including VAT and Car Tax.

Golf Greenkeeping tested the middle of the range truck, the 4x4 Duster Hard-Top, priced at £4,650 (ex VAT). A week's trial on the road as well as the golf course and I am not ashamed to admit I shed a little tear of regret when the seven days passed all too quickly and it had to go back.

The more I drove this little blue coloured beauty, the better I relished it. Not only that, like a beau escorting his belle, there was the additional pleasure of admiring glances. Whether it was the Dacia's good looks or its undoubted substance, but as a mere car driver, for a whole week, I experienced the delight of 'given way' by other motorists, gratefully acknowledged by a touch to the cap or a flick of the headlamps.

Although the Duster is a rugged hard grafting work-horse, driver and passenger comfort is at a premium. The padded seats, with head rests are as comfortable as your favourite lounge chair, a full set of instruments are easily visible, the rear windscreen is heated and the wipers and four jet washers will cope with any amount of muck thrown up from the road.

If I have a criticism it must be the position of the ignition lock. The one way key is a real fiddle to slot into the lock, particularly because there is so little clearance between the ignition, located on the steering column,



Golf Course Test for the Dacia Duster

and the padded dash board. For security another key is provided for the door locks and the petrol tank but as they are together on a key ring it is not too difficult to trap one's fingers, putting it in or pulling it out.

Wetherby Golf Club's Head Greenkeeper John Scott who also tested the Dacia Duster, agreed and he also suggested a rear window wiper would be a useful addition.

As a general purpose golf course truck, the Dacia Hard-Top is ideal for moving equipment around the course or taking machinery for repair. It is just as 'At Home' on rough terrain or on the road. For normal road use it is driven in two-wheel drive, turn a hand operated screw on the front wheels and the mode becomes four-wheel, ready to be engaged in either high or low ratio by a lever, forward of the gear handle.

A tow ball and electrics are standard as is the 'Roo Bar' on the front, not only to brush away kangaroos that might have escaped from local zoos, but more practically to protect the bonnet from bumps and scrapes.

Out on the course, the Duster went everywhere it was asked, including the steepest gradient we could find. Using the high ratio four-wheel drive it climbed from a standing start, a notoriously wet part of the fairway without the vestige of wheel slip, or a mark on the turf.

The 1400cc Renault engine is quiet and adequate for the job, but Dacia Concessionaires have told me a diesel version will be available towards the end of the year.

In addition to the manufacturers standard 12 month warranty, a second year's cover is included free of charge on all Dacia Dusters with the option of a third year also available. The unlimited mileage covers all major mechanical and electrical components.

All Dacia Dusters are treated with Swedish system Dinol anti-corrosion protection. The five year warranty applies to all treated areas including underside, box sections, sills and doors.

The sole importers of the Dacia range are

Dacia Concessionaires Ltd.
Dilton House, Station Road,
Westbury, Wilts.

TECHNICAL 3

There are currently 65 dealers throughout the UK. Further details can be obtained by contacting


The Editor,
Golf Greenkeeping,
P.O. Box 12, WETHERBY,
West Yorks.
Tel: (0937) 63181

SPECIFICATION		DACIA DUSTER 4 x 4 HARD-TOP	
ENGINE	Type	4 CYL. IN LINE OHV	
	Displacement	1397 cc	
ELECTRICAL SYSTEM	Bore and Stroke	76mm x 77mm	
	Compression Ratio	9.5	
	Maximum Power	65 bhp (DIN) at 5250 rpm	
	Maximum Torque	105 Nm at 3000 rpm	
FUEL SYSTEM	Alternator	12v. 3-AMP	
	Battery	45 A	
TRANSMISSION	Carburettor	Single Manual Choke	
	Fuel Tank Capacity	10 Gallons	
STEERING	Clutch Gearbox	Single Dry Plate Mechanical Operation 4 Speed Synchronesh	
	Transfer Box	High & Low Ratio Front Wheel Hubs	
BRAKES	Type	Worm & Roller	
	Front Rear	Disc Power Assisted Drums, Leading & Trailing Shoes Assisted	
SUSPENSION	Front	Independent, Wishbones, Coil Spring, Telescopic Shock Absorbers	
	Rear	Rigid Axle, Semi-Elliptic Leaf, Telescopic Shock Absorbers	
TYRES	Front and Rear	175 x 14	
	DIMENSIONS AND WEIGHT	Overall Length	3777mm
Overall Width		1600mm	
Overall Height		1740mm	
Wheelbase		2400mm	
Front Track		1304mm	
Rear Track		1304mm	
Minimum Ground Clearance		225mm	
Cargo Bed	Length	—	1130mm (3'9")
	Height	—	590mm
Maximum Payload	350 kg (6.87 cwt)		
Kerb Weight	1180 kg		

VOTE OF CONFIDENCE

Sales of Daconil* *turf* prove the point. Since it was launched by ICI last year, greenkeepers everywhere have elected to use this turf fungicide based on chlorothalonil. Well you can't keep a good fungicide down!

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The list of turf diseases prevented, controlled and cured is impressive:



But that's not all. Daconil *turf* can be used at any time of the year and is especially useful in spring and autumn when disease incidence is most likely. It has dependable and consistent disease activity and only needs to dry on the leaf to resist heavy rains, morning dew or frequent watering. And because of its liquid formulation it is easy to dilute and apply.

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Daconil *turf* contains chlorothalonil. Read the label before you buy; Use pesticides safely.

*Daconil is the registered trade mark of SDS Biotech.

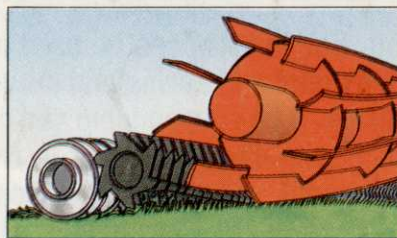


Stroke for stroke, the best in the business.

Greens King® IV Diesel.

Now, you can approach the green with the finest tournament-quality triplex greens mower and cut your fuel costs virtually in half. Because the innovative Jacobsen Greens King family introduces another industry first: *Diesel*.

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