

Exhibitors promise plenty to look at

years of trading, so if you are unsure of what equipment you need to tackle a certain task, A&F will probably have the answers you're looking for.

Be it by mail order or just calling into the premises in Fernhurst, you can be sure of prompt service and helpful advice by experts.

Rhône Poulenc Environmental Products

Look out for Rhône Poulenc products at the Landscape Industries exhibition.

Spearhead, says the company, brings long awaited new chemistry to the amenity turf market. The pesticide sets new levels of excellence and controls not only the more common weeds in turf but also the problem weeds such as Slender Speedwell and the Clovers.

Vitesse is described as a powerful new way to fight turf disease

during the growing season.

Spearhead (trademark of Dow Elanco), contains diflufenican, MCPA and clopyralid. Vitesse contains iprodione and carbenazim. Read the labels before you buy: use pesticides safely.

Inturf

Continuously developing new products and systems for the sports and amenity turf industry, Inturf are experimenting with a completely new grass that will go into its markets for athletic grounds, landscaping and general purpose applications.

Not only does this turf promise to be extremely hard-wearing but it will also recover very quickly from excessive use such as on football grounds.

More information at the show, along with Inturf's original patented Big Roll turfing system, Lay'n' Play turf tiles and details of custom grown turf service.



Landscape Industries: an exhibition with a lot to offer its visitors

"You will not find a more comprehensive turf growing, turf installation or turf management service anywhere," said Inturf's

managing director, Derek Edwards. With Derek on the stand will be Simon Hannam and Chris Bradshaw.



See us
on Stand H12
at BALI

INSTINCTIVELY

INTURF

BIG ROLL TURF

The original patented system

CUSTOM GROWN

For special applications

CLASSIC

A complete range of turf types

LAY 'N' PLAY

Turf Tiles

Unique instant turf repairs

The Inturf Group,
Regent Street, Pocklington, York YO4 2QN
Telephone (01759) 304101 Fax (01759) 305229

For Scotland
Tel: 0131 663 6617/8/9 Fax: 0131 663 0651

For France
Tel: +++(33) 44 54 90 76 Fax: +++(33) 44 54 64 07



FURNITURE & FITTINGS



■ An automatic tee up playmat, complete with electric feed and deep pile synthetic grass, is set to spare the greenkeeper a few headaches when clearing up after over-enthusiastic golfers.

The ultimate forgiving device was put to the test at Charnwood

Golf Centre, Loughborough and proved to be a major attraction.

The practice mat is made from artificial grass used with some success by makers Range Servant over the last ten years. It allows mistakes and poor shots without shock to the player's arms – or

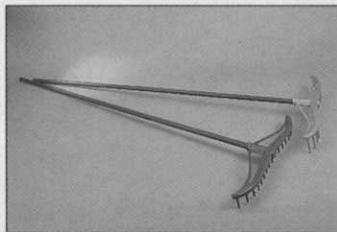
the greenkeeper's frayed nerves.

It works like this. There's a big tray into which the player tips his basket of balls – up to 80 or so. With a golf club, the ball to be played is pulled onto the synthetic grass, over the tee that then rises automatically to a pre-determined height. When the ball is played, the tee retracts leaving the mat free for iron shots from the surface. Every time a ball is pulled over the tee, it rises.

The head professional at Charnwood reckons the device offers both improved stance and swing practice, helping to speed up play. It also encourages the use of more balls, generating extra income for the range and better facilities for the player.

The Range Servant Automatic Tee Up comes complete with deep pile "grass" inlays, a rubber stance mat and sturdy ball tray. It requires an electric feed, 220/240 volt and costs just under £500 plus delivery and VAT.

Details: 01142 834242.



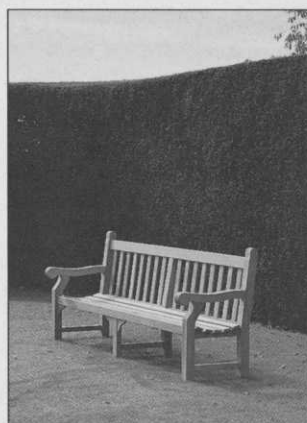
■ Tacit's Big Bird Bunker Rake (above) has a 6' shaft made from composite material and a sturdy 24" braced head for extra strength. Where this product really scores is that it's deliberately lightweight, which means it can be used for longer without wearing out the user.

Also from Tacit, something to stop greenkeepers constantly repairing or replacing plastic tee markers – an unbreakable one.

Made from heavy duty cast aluminium, and ribbed for added strength, these tee markers have no spikes to damage the tees or snap off and are raised off the ground to prevent scorching.

Tacit superior dimpled half golf ball design will eliminate all the problems that occur with plastic markers, say the manufacturers, for almost the same price.

Details: 01788 568818.



■ When even the keenest of golfers need to rest: enter the Gloster bench or chair.

The Gloster collection of outdoor, patio and conservatory furniture offers a range to cater for all golf club requirements, including an inscription service for commemorating events or club personalities.

Gloster uses teak, a highly close grain timber for its resistance to climactic extremes and for being practically maintenance-free. No paint or preservatives are required.

Probably the most important considerations to bear in mind when choosing furniture, is that it should be sturdy, attractive and require the minimum of maintenance. Weighing up to a hundredweight, the traditional teak bench is a long term investment: expect it to last 50 years or more.

Teak has been valued as the ultimate material for outdoor furniture manufacture, being warmer to the touch than stone or metal. It will also blend well with natural surroundings. Details: 0117 931 5335.



Unbreakable tee marker, from Tacit

G

**GOLF COURSE
EQUIPMENT**



USING OUR EXTENSIVE

EXPERIENCE

TO SUPPLY

THE GOLFING INDUSTRY

WITH QUALITY

PRODUCTS FOR:

THE TEE

THE FAIRWAY

THE GREEN

THE CLUBHOUSE

THE GREENKEEPER

THE DRIVING RANGE

THE PUTTING GREEN

TURF MAINTENANCE

EUROPEAN SPECS

**ALL YOUR COURSE
REQUIREMENTS
from one manufacturer!**

★★★

FROM THE TEE

Pear shaped tee markers: £6.90

Golf Ball tee markers: £6.30

Cone tee markers: £4.50

★ DIVOT BOXES £64.00

Course signs from £6.80

**PREMIER HOLE CUP
CUTTER £95.00**

Swivel tube lock flags: £3.20

GREENKEEPING TOOLS

3cm Handy Soil Tester: £15.00

Pop Up Trimmer from £32.00

**H. PATTISSON & CO LTD,
342 SELBOURNE ROAD,
LUTON, BEDS LU4 8NU**

TEL: 01582 597262 FAX: 01582 505241



Talking point: a Pattisson's tee console, complete with ball washer

■ Pattisson's are acknowledged to be a one-stop shop for all course furnishings. From the tee area, Pattisson's range starts with the simple placement markers to their popular resin pear shaped and golf ball tee markers.

As an alternative, tee consoles come complete with a sign that can show anything from the course layout to yardage information. A ball washer, by Royale or one of the other makes, makes the tee console quite a feature of the tee area. The console can also

be finished off with a litter bin, towel and shoe cleaner. As with many of the Pattisson products, the console can be manufactured to a golf club's specification to maintain a consistency of style.

Specifically for the greenkeeper is the new pop up trimmer, a useful tool to cut around the sprinkler head areas that tractor mowers just can't get to.

Even the humble boot cleaner comes in an updated version: ask for the Pattisson catalogue on 01582 597262 and check out the "electronic boot wiper".



Sign of the times: elegance and information from Pattisson's

Rolawn®

Britain's Finest Turf

NEW FOR SPRING 1995

Just launched, our brand new Turfmaster System

The complete turf laying system for the 21st Century making work around the golf course quicker and easier today.

Make your budget go further, switch to Rolawn's TURFMASTER SYSTEM using the all new BUDGET ROLL

*Seeing is believing, to arrange
a FREE demonstration
contact your nearest Rolawn Turf depot*



THE 15 SQUARE YARD ROLL IS AVAILABLE
IN ALL GRADES OF ROLAWN TURF

Rolawn®

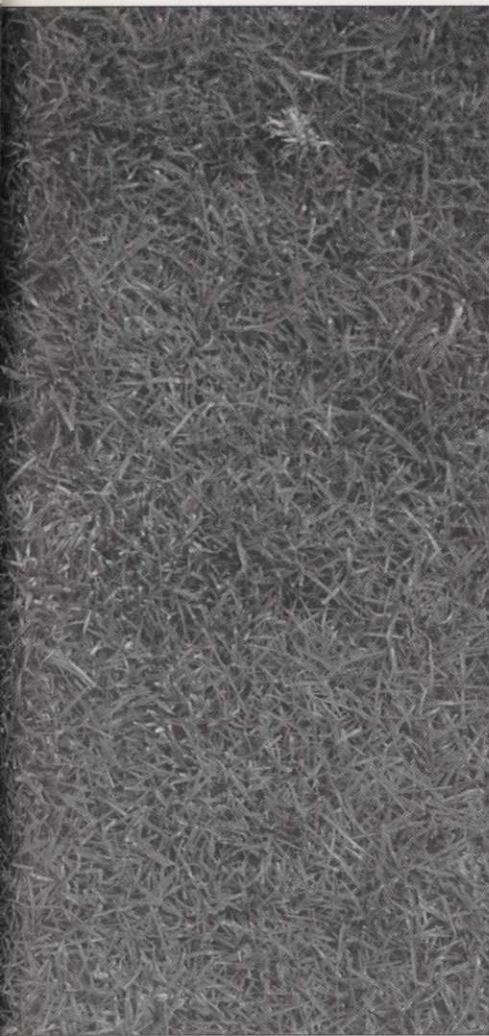
Turf Depots are situated throughout the UK

Brentwood.....Tel: 01277 811566	Oxford.....Tel: 01865 730101
Bristol.....Tel: 01454 415315	St Albans.....Tel: 01727 822139
Edinburgh.....Tel: 0131 335 3164	Sheffield.....Tel: 0114 248 9646
Gateshead.....Tel: 0191 493 2226	Sidcup.....Tel: 0181 309 5988
Glasgow.....Tel: 0141 762 0770	Solihull.....Tel: 01564 784064
Guildford.....Tel: 01483 300908	Southampton.....Tel: 01703 740059
London West.....Tel: 01895 811544	Knutsford.....Tel: 01925 755151
Nottingham.....Tel: 0115 949 1108	York.....Tel: 01904 781234

Head Office: Elvington, York YO4 5AR
Tel: 01904 608661

The appliance of science





Robert Laycock assesses the scientific evidence of the effect of soil phosphate on annual meadow grass

When a statement is repeated often enough and is rarely challenged, it takes on an air of respectability that it may not entirely deserve. The effect of soil phosphate on annual meadow grass is a case in point. Is there scientific evidence to support what is widely believed to be established fact? How many people have actually read the scientific papers which, it is claimed, demonstrate the phosphate-*Poa annua* link?

How many greenkeepers have stopped using phosphatic fertilisers on their greens without at the same time improving their aeration or surface drainage? A decrease in annual meadow grass under these circumstances could just as easily be due to relieving compaction as by reducing the phosphate input.

To verify and study in more detail an effect observed on the golf course a trial should be set up under strictly controlled conditions. For example, to study the effect of soil phosphate on the annual meadow grass content of golf green turf, an artificial green should be constructed and a range of levels of phosphate added, including one treatment to act as a control with no added phosphate. There

should be several replications or repeats of each treatment.

Variations among treatments are carefully recorded and the results subjected to statistical analysis. This shows the likelihood of any difference in annual meadow grass content among the plots being due to chance rather than a true effect of the treatments. Conversely, applications to a green can be stopped (without altering any other management practice) and the decline – if any – in meadow grass content monitored over time.

From 1895 to the present day, researchers have been applying fertiliser in various combinations to turf plots and carefully recording the results. The University of Rhode Island were first; later came the Board of Greenkeeping Research, later to become STRI, with a series of long term trials. Individual researchers such as Sprague and Burton in the 1930s and Juska and Hanson in the 1960s also performed similar work.

It was in the 1950s that the idea of a relationship between phosphate and *Poa annua* was first raised in a non-technical article in the USA. The idea took hold, but in the few scientifically conducted trials reported since

MAKE PEACE WITH YOUR GREENKEEPER...

Order an Atterton for him this season.

He worried the life out of all the committee members and kept on complaining about sending out his cylinders for grinding.

He told everyone about the attributes of an Atterton grinder, how you can grind in-situ with the cutter unit still in the machine.

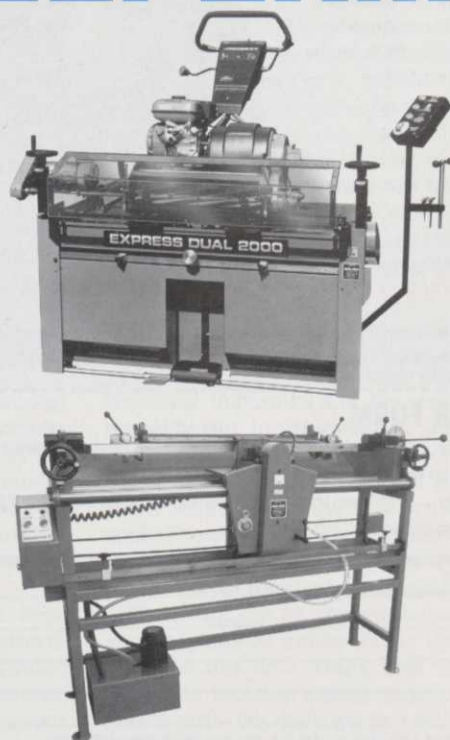
How you can grind the cylinder separately when the machine's stripped down for maintenance.

How there's a new model out with a relief grinding attachment and an electric drive lifting platform to get those heavy old gang units up onto the grinding table.

How there's a bottom blade grinder that made the ideal pair and how the pair of them would enable him to keep his cutter units and the course in tip top condition.

How they're both the best in the business and he wanted 'em bad!

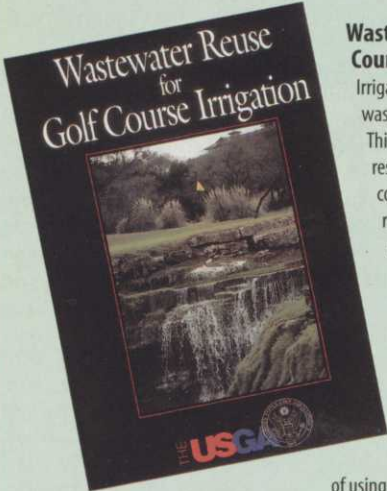
We made peace with our greenkeeper – do the same and you'll see how an Atterton reduces service account costs and provides real benefits to your greenkeeper and the course!



AE **ATTERTON & ELLIS LTD**
Manufacturers of Fine Grinders for over 100 years
Iron Works, Haverhill, Suffolk, CB9 8QH
Tel: 01440 702312 Fax: 01440 712138

AD
REF
7

BRILLIANT BOOKS at SPECIAL PRICES for readers of GREENKEEPER International



Wastewater Reuse for Golf Course Irrigation

Irrigating your golf course with wastewater – is it possible? This new book, written by leading researchers and practitioners in golf course irrigation, discusses a wide range of technical and regulatory aspects of wastewater reuse for irrigation. Water quality, water conservation, regulations, water rights, water delivery and design of systems are explored in detail in this informative book, and successful wastewater reuse projects are examined. The benefits and potential problems

of effluent water for irrigating golf courses are also explored. Contents include: ● Water – where will it come from? ● Turfgrass water conservation ● Effects of wastewater on the turfgrass/soil environment ● The feasibility of using wastewater on golf courses.

Hardback, 304pp: usual price £45,

SPECIAL PRICE to Greenkeeper International readers: £33

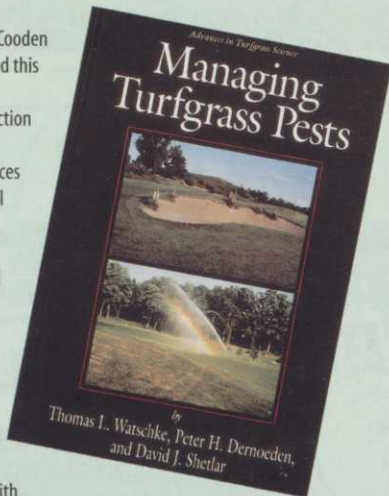
Managing Turfgrass Pests

Stefan Antolik, head greenkeeper at Cooden Beach Golf Club, East Sussex, reviewed this book in February's Greenkeeper International, saying: "I found the section on Turfgrass Diseases to be of much interest, especially the cultural practices and the environmental and biological control methods... As a result of all the recent concern about the environment, it seems that more and more greenkeepers will need to revert back to cultural practices..."

Contents include: ● Monitoring disease and establishing thresholds ● Diseases categorised by season ● Seeding diseases and damping off ● Factors associated with fungicide use ● Turf insects and mite management ● Vertebrate animal pests of turf.

Hardback, 400pp: usual price £57.50,

SPECIAL PRICE to Greenkeeper International readers: £43



Other titles also available at rock bottom prices for Greenkeeper International readers and BIGGA members – call Samantha Flint at BIGGA HQ for details on 01347 838581

ORDER FORM

Please supply copy/copies of **Wastewater Reuse for Golf Course Irrigation** at the special price of £33 per copy including post and packing

Please supply copy/copies of **Managing Turfgrass Pests** at the special price of £43 per copy including post and packing.

I enclose cheque payable to BIGGA for £..... OR I wish to pay by credit card. Please debit my

Access/Visa (delete as appropriate) for £..... Card No:.....

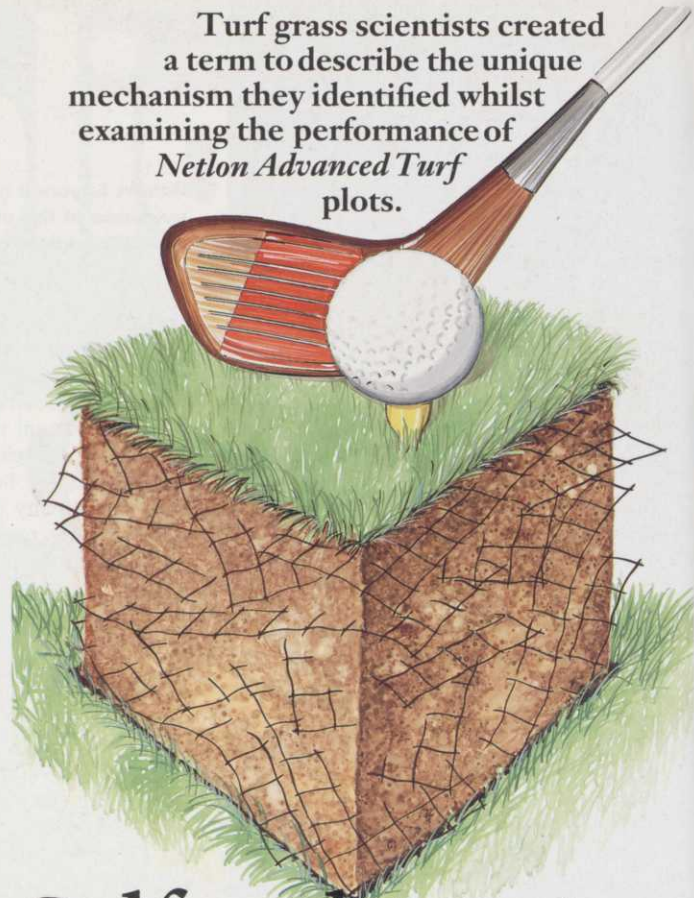
Expiry date:..... Signature:.....

Name:.....

Address:.....

Return to BIGGA, Aldwark Manor, Aldwark, Aline, York, North Yorkshire YO6 2NF.

Turf grass scientists created a term to describe the unique mechanism they identified whilst examining the performance of *Netlon Advanced Turf* plots.



Self-cultivation

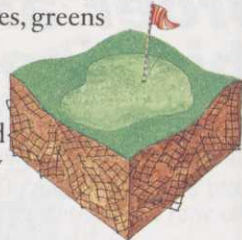
Self-cultiva'tion (n. the effect of small polypropylene mesh pieces as they flex within a free-draining rootzone material to create and maintain voids and to resist soil compaction. The mechanism takes place as the surface is compressed during play, maintenance or by other activities.

Maintaining health and minimising damage



You will not find the term self-cultivation in any dictionaries at the moment, but you will find evidence of its effect on tees, greens and paths. There will be deeper root penetration, higher

infiltration, greater divot resistance and faster recovery rates due to the stability and root anchoring provided by the elements.



Telephone Emma Burns on 0800 585012 if you would like more information about *Netlon Advanced Turf* or return the coupon.

Netlon Advanced Turf Systems,
Netlon Limited,
Kelly Street, Blackburn,
England BB2 4PJ
Telephone: (01254) 262431
Fax: (01254) 694302

Netlon is the registered trade mark of Netlon Limited in the UK, the USA & other countries.
Netlon Advanced Turf is patented in the UK, the USA & other countries.

Netlon

ADVANCED TURF

Name	GL5.95
Company	
Address	
Postcode	Tel:

then, firm scientific evidence for the claimed relationship has not been shown. Two widely quoted papers from the USA report research by Goss and by Waddington and their co-workers. Both papers are claimed to support the link between high soil phosphate levels and *P.annua*.

Goss's paper, published in the 1975 STRI Journal described a trial conducted using a variety of fertiliser combinations on an area of *Agrostis tenuis* turf which had been established in 1959. Part of the trial received no phosphate between then and when final assessments were made in 1974. The remainder of the plots received the very high rate of 8.6gm² P per year, but no intermediate levels. As well as phosphate, the plots also received combinations of potassium, nitrogen and sulphur.

Plots were assessed by eye for *Poa* content on 1-10 scale of five occasions between 1971 and 1974. These results were then subjected to analysis of variance. This type of analysis should not really be used with this kind of data, but it was and so we will consider the published results.

Before the trial had commenced and in 1966, the meadow grass was uniformly distributed among the plots. The final assessments of the nine pairs of treatments (with and without P) showed four of the phosphate treatments to have significantly more annual meadow grass than their zero P equivalents. The remaining five pairs did not show statistically significant differences and some zero P treatments contained more annual meadow grass than those with P. It is interesting to note that the treatment with one of the highest incidences of meadow grass was the one which had received no fertiliser whatsoever! This does not seem to me to be conclusive proof of the claimed relationship.

Waddington's work was conducted on a ten-year old area of 'Penncross' creeping bent over a six year period. Agian, a variety of fertiliser types were used and the *Poa annua* content recorded. In this trial there was a range of phosphate levels, all high, and the plots were assessed by eye for percentage *Poa annua*. No lime was added to the plots, but the calcium content of the water was high enough to be remarked upon.

During the course of the trial, meadow grass content of the treatments varied up and down. Unfortunately, even before the trial had begun the plots which were to receive phosphate had a higher content of annual meadow grass than the no phosphate plots. Little wonder, then, that those which had received phosphate contained, on average, more *Poa annua* at the end of the trial. However when the average meadow grass content of the zero phosphate treatment was 5% and that of the high phosphate treatment after six years of treatment was only 8%, did it really matter?



'If we look at the behaviour of phosphate in the soil there is even less reason to believe that stopping its use could cause a decrease in annual meadow grass'

— ROBERT LAYCOCK

More recently, the STRI conducted research on the effects of various nutrients on fescue-bent turf, in trials financed by the R&A. In their series of trials no relationship between soil phosphorus and the annual meadow grass content of greens turf has been published except in the presence of lime.

It is true that relationships have been found between phosphorus and the growth of individual plants of *Poa annua*, even under laboratory conditions. But no one has conclusively proved that phosphorus applications increase annual meadow grass in greens turf. I hear of pure fescue greens with a high

phosphorus content. Why have not these been taken over by annual meadow grass?

The conclusion of all this is that it is important sometimes to reassess those things which have come to be taken for granted. The trials most often cited as demonstrating the relationship between phosphate and *Poa annua* are clearly not conclusive and are, some would say, flawed by their subjective assessment methods and inappropriate use of statistical techniques.

Phosphorus is one of the three major plant nutrients obtained from the soil which is classed as essential for the healthy growth of plants and therefore must be made available to them. But just because the evidence for its relationship with *Poa annua* is non-existent or, at best, shaky, it should not be applied haphazardly in large amounts to golf greens. A far better reason not to apply phosphate is because in most cases it is already present in the soil in greater than necessary quantities.

Surveys of the phosphorus content of established greens in the UK, West Germany and the mid-West of the USA have all shown that in the vast majority of cases there is an over-supply of phosphorus in the rootzone material. (It is interesting to note, incidentally, that a recent survey of agricultural grassland in the UK came to the same conclusion).

If we look at the behaviour of phosphate in the soil there is even less reason to believe that stopping its use could cause a decrease in annual meadow grass. Phosphates are strongly bound in the soil. They leach away very slowly even on the most sandy of root-zones. In fact their presence is used by archaeologists to detect the activities of man thousands of years ago.

A greenkeeper is going to have to wait decades before the phosphate levels of his greens fall away significantly. And all that time it will be available to the annual meadow grass. Ceasing to apply phosphate under these circumstances can have no significant effect on the amount of *Poa annua* in a golf green.

Before deciding on which fertiliser to use it is always wise to have a soil test performed and to consult a knowledgeable adviser about the implications of the results. It will probably not be necessary to apply phosphate to old greens. When present the fescues and bents found in old golf greens have a low requirement. But if it is necessary to apply phosphatic fertiliser, scientific research has not demonstrated conclusively its effect on the annual meadow grass population.

Phosphate can be applied without fear of encouraging *Poa annua* unless the fertiliser also contains lime. Using lime really does appear to increase annual meadow grass in greens turf – but that's another story.

● Turfgrass scientist Robert Laycock runs his own agronomy consultancy.

Buyers' Guide

The most cost-effective way of reaching readers of *Greenkeeper International*. Simply ring Bill Lynch on 0191 413 7218, Carol Dutton or Louise Lunn on 01347 838581 and ask about an alphabetical category listing: the cost starts from the equivalent of under £25 per month.

Aerators

AERATORS

Problems with dirty water or algae bloom? Let Otterbine clean-up your lakes and ponds.

The world leader in water quality management.

Available from leading irrigation companies. Full details from:

S.G.I. Sales

6 Stuart Road,
Market Harborough LE16 9PQ
Tel: 01858 463153 ♦ Fax: 01858 410085

Agromony

PSD AGRONOMY LTD

A COMPLETE AGRONOMIC CONSULTANCY SERVICE FOR THE GOLF CLUB and GREENKEEPER

- Contract Management of Extensions and New Courses
- Site Management and Problem Diagnosis on Existing Courses
- Technical Advice and Support all year round
- Soil and Turf Analysis



For further information contact:
David Stansfield or John Hacker
42 Garstang Road, Preston PR1 1NA
Tel: (01772) 884450 Fax: 884445

Animal Repellents

FAIRWAYS DISCREET CONTROL

CONSULTANCY
ENVIRONMENTAL SERVICE & TRAINING

Rabbits & Moles...
Our problem!

SPRINGER HOUSE - WINDMILL LANE
KEMBLE - CIRENCESTER GLOS - GL7 6AN
TEL: 01285 770919
FAX: 01285 770910

SCUTTLE® ANIMAL REPELLENT

Up to ten weeks protection from browsing by rabbits from a single, effective spray application.

For product leaflet and the name of your nearest distributor, call

01734 510033
Fax: 01734 510044

Read the label before you buy
Use pesticides safely
Scuttle contains sulphurated cod liver oil

© Fine Agrochemicals Ltd, Worcester WR2 5AA

Arboriculture



- Tree Spade Hire
 - Semi Mature Trees supplied
 - Mulches supplied
- Ring for colour brochures

Iver, Bucks, SLO 9LA
Tel 01753 652022
Fax 01753 653007

YOU'RE ONTO A WINNER WITH GREENKEEPER INTERNATIONAL

Find three tiny £50 notes – win a real one, for free!

HERE WE GO with another chance to WIN £50 with Greenkeeper International!

All you have to do is take a look at this £50 note symbol. Now look through the ads in the Buyers' Guide section and spot THREE of them – they've been reduced in size, but they're there, somewhere!

Write down the names of the three ads where the £50 notes are located and send your entries on a postcard to: Note the Notes Competition, BIGGA, Aldwark Manor, Aldwark, Alne, York, North Yorkshire YO6 2NF, to be received by first post Friday May 19, 1995. The first correct entry drawn after that date will win £50. It could be YOU! Enter today – and Note the Notes!

Judges' decision is final. Not open to BIGGA staff.

£50

★ Richer to the tune of £50 is Martin Mewett, first assistant at Cobtree Manor Golf Club, Maidstone, Kent. Martin is the lucky winner of our April competition. Who's going to get the money this time – could it be you? Get searching, note the notes and be a big winner!

Architects



JONATHAN GAUNT

B.A. (Hons.) Dip L.A.
GOLF COURSE ARCHITECT

From feasibility studies to complete design projects including contract supervision

40C NORWICH ROAD FOREST GATE
LONDON E7 9JH

TEL: 0181 555 8577 FAX: 0181 519 6163

Associate of the British Institute of Golf Course Architects

Artificial Grass

VERDE SPORTS LIMITED

UNIT 25, COWLING MILL
COWLING BROW
CHORLEY
LANCASHIRE PR6 0QG

Tel: 01257 269983/269069
Fax: 01257 261064

- VERDE TEE FRAME
Steel platform, woven grass top.
- VERDE WINTER TEE
Generous size, self-install kit.
- VERDE DRIVING MATS
Top quality - Long Life - Best Prices.
- ARTIFICIAL GRASSES
- DRIVING BAYS AND NETS
For club and home use.

TWENTY YEARS EXPERIENCE SUPPLYING THE BEST SURFACES AT COMPETITIVE PRICES.
Please call for samples & information

HAVE YOU FOUND THE TINY £50 NOTES YET? Track them down and win a REAL £50 note! Get searching!

F3 FORCE LEISURE

Worting House
Basingstoke
Hants RG23 8PY
Tel: 01256 811014

- COURSE CONSTRUCTION
- SYNTHETIC GRASS TEES
- WINTER GREENS
- ADVENTURE GOLF

Bark

PRACTICALLY BROWN PATHFORM™ Hardwood Chips

Ring for samples
and colour brochure

Iver, Bucks, SLO 9LA
Tel 01753 652022
Fax 01753 653007

Black Layer

SYMBIO BLACK LAYER TREATMENT AND GREEN CIRCLE

The biological way to:

- ✓ Degrade Black Layer
- ✓ Increase Root Depth
- ✓ Degrade Thatch
- ✓ Reduce Fertiliser Needs
- ✓ Combat Disease

Tel: 0181 669 0011 or Scotland: 0131 663 6617
Ireland: 01266 654089 East Anglia: 01787 269292
Wales/South West: 01202 537777 North West: 0161 456 7109

Bridges



TOTAL TIMBER ENGINEERING

H.L.D. LTD



BRIDGES

Pedestrian and Vehicular
REVETMENTS
SHEET PILING
SHELTERS

HICKSON LEISURE DEVELOPMENTS
NEW POTTER GRANGE ROAD, GOOLE
NORTH HUMBERSIDE DN14 6XF
telephone (01405) 766060 fax (01405) 768622

Buildings



THE GREENKEEPER'S CHOICE



Secure sectional steel buildings in various sizes.

- Machinery & equipment storage
- Fertilizer, weedkiller & seed storage
- Workshops • Tool sheds
- Trolley stores
- Temporary fencing & secure enclosures £30

For FREE design service, quotation, brochures and technical advice PHONE NOW

0121 533 5723 (24hrs)
Elwell Buildings Ltd, 204 Oldbury Road, West Bromwich,
West Midlands B70 9DE. Fax: 0121 580 1172

Cockleshells

COCKLESHELLS

always available

Phone 01973 218144

Best prices – guaranteed



PHOENIX
SPORTS TURF
SERVICES

COCKLESHELLS Delivered Nationwide

"SUPPLIERS OF QUALITY FINE TURF,
CONSTRUCTION SOILS, ROOT ZONES &
DRESSINGS"

Tel: 01229 468001
Fax: 01229 468002

Chemical Disposal

CHEMICAL & EMPTY CONTAINER DISPOSAL A PROBLEM?

ENVIROGREEN offer a Specialist Pesticide Disposal Service for both full and empty container disposal. Also Record Books, Signs, Chemical & Fuel Stores and Protective Clothing

ENVIROGREEN Limited
Maxwell Hart Building Centre
PO Box 298, Lightwater,
Surrey GU18 5HH
Registration No. BRK 060299
Tel: 0345 125398 Fax: 01276 452616

GRUNDON

Grundon can provide safe disposal for pesticides and herbicides and all chemical wastes. For more information on how Grundon can help with your "Duty of Care" telephone 01491 834311

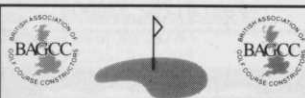
Construction

RD JONES & SONS Golf Course Construction Ltd

DESIGN AND CONSTRUCTION SPECIALISTS

Cae Coch Farm,
Whitford, Clwyd,
North Wales CH8 9EP.

Tel: 01745 561761



LAND UNIT CONSTRUCTION

Hanslope, Milton Keynes, MK19 7BX
Telephone: 01908 510414
Fax: 01908 511056

Greenline Golf Course Construction Co.

CONSTRUCTION AND REFURBISHMENT CONTRACTOR

For all your design and
construction requirements

47A Iona Street, Edinburgh EH6 8SR
Tel: 0131 555 1799 Fax: 0131 555 3271

G.O.L.F LANDSCAPES LIMITED

ASHWELLS ROAD, BENTLEY
BRENTWOOD, ESSEX CM15 9SR

TEL: (01277) 373720
FAX: (01277) 374834



CONTACT THE PROFESSIONALS

Tim Banks, Secretary, BAGCC,
Angel Court, Dairy Yard, High Street,
Market Harborough LE16 7NL.
Tel: 01858 464346



C.J. Collins Construction

Golf Course Contractors



Burgess Hill, West Sussex

Tel: 01444 242993
Fax: 01444 247318

Whitnell Contracts Ltd Golf Course Constructors



Woodlands, Ellis Road
Boxted, Colchester
Essex CO4 5RN

Tel: (01206) 272834

Fax: (01206) 272104

Mobile: 0860 421074

Whitnell
Contracts
Ltd

HAVE YOU FOUND THE TINY £50 NOTES YET?

Track them down and
win a REAL £50 note!
Get searching!

Michael Lowe & Associates



GOLF COURSE DESIGN,
CONSTRUCTION & CONSULTANCY

Design only, complete construction or
any stage in between, including
Drainage.

Pro-Shop, 72 Brynau Road,
Llandudno, Gwynedd

Tel: (01492) 876878 Fax: (01492) 872420

Consultancy

David Hemstock Associates

Consultants on:

- Golf Course upgrading
- New Course development
- Specialists in irrigation, drainage, contour and environmental surveys.



Suite 4d, East Mill, Bridgefoot, Belper,
Derbyshire DE5 1XF.
Tel: 01773 827115 Fax: 01773 821083
Mobile: 0850 744957

IMPERIAL LANDSCAPES Fine Turf & Golf Course Consultants

◆ Tel: (01234) 851651 ◆ (01908) 615680
◆ Mobile: 0836 767940 and 0836 657033

Moreton Lodge, Moorland,
Bromham, Beds MK43 8LU

Course Accessories

BOYD GOLF COURSE ACCESSORIES

IRELAND'S LEADING GOLF
COURSE EQUIPMENT &
ACCESSORY MANUFACTURER

FOR MORE INFORMATION

TEL: (01247) 271163

FAX: (01247) 471136

BIG BUNKERS?



Then take a tip from
Tommy Tacit and try the
new lightweight
Big Bird bunker rake.
Large 24" braced head
6' x 1 1/8" GRP shaft

TACIT

TACIT MANUFACTURERS
RUGBY, ENGLAND

Tel: 01788 568818

Fax: 01788 537485

Drainage

SLEATH & SON SPORTSTURF DRAINAGE

Full range of modern equipment providing
UK and European service

Contact Geoff Sleath

Tel: (01709) 862109 Fax: (01709) 862075

AGRIPOWER LTD.

Construction
Drainage
Stone Picking
Verti-Draining

Tel: (01494) 866776



Sunnyside, Blairadam, by Kelty,
Fife KY4 0HY

Tel: (01383) 830217

Fax: (01383) 831771



WHITE HORSE
CONTRACTORS LTD
SPORTSTURF
OXFORD (01865) 736272

Driving Range Equipment



Established 1896

H. PATTISSON & CO. LTD

Suppliers of quality golf course and driving range
equipment.

Comprehensive range of products
from leading manufacturers.

- ◆ Ball dispensers ◆ Elevators ◆ Ball Washers
- ◆ Range Mats ◆ Baskets, Balls, Tees, etc.
- ◆ Course furnishings from the tee to the green.

Contact Iain Richardson - Mobile 0850 850860

342 Selbourne Road, Luton, Beds LU4 8NU

Tel: 01582 597262 • Fax: 01582 505241

RANGE SERVANT UK Ltd.

A NEW UK subsidiary of
Range Servant of Sweden AB,
Europe's market leader for

GOLF RANGE EQUIPMENT

Ball Dispensers, Collectors and Washers.
Play Off Mats and Winter Tee Mats.

AUTOMATIC TEE-UP UNIT

Phone / Fax 01442 834242

Mobile 0585 468624

4 Arden Close, Bovington HP3 0QS

DRIVING RANGE SUPPLIES

EASY PICKER Europe Ltd

GOLF DRIVING RANGE EQUIPMENT

Upgrade your practice area using the
world's most popular range ball picker.
Also suppliers of ball dispensers, ball
washers, top quality range mats and
winter tees.

Tel: 01508 528828

Fax: 01508 520909

Environmental Products

*For natural and
environmental
solutions to get
you growing,
contact:*

farmura

Stone Hill, Egerton, Ashford,
Kent TN27 9DU
Tel: 01233 756241 Fax: 01233 756419

*Tell the industry of your products
and services, through an
advertisement in greenkeeping's
top magazine GREENKEEPER
INTERNATIONAL*

Fertilisers



FERTILISERS COMING TO THE UK SOON!

For more information contact:

Scotts UK Ltd

(formerly Grace Sierra UK)

61 Loughborough Road,
West Bridgford, Nottingham NG2 7LA

Tel: 0115 9455100 Fax: 0115 9455311

Golf Course Supplies

THE UK'S LEADING SUPPLIER OF MONEYSTONE BUNKER SAND

Unbeatable range of Cheshire Quality TOP DRESSINGS

High specification ROOT ZONES

Par-link - Ultimate pathway gravel

Grass Seeds - Vast range at low prices

Delivered Nationwide in loose bulk or 25kg bags

Tel: 01625 584571
Fax: 01625 586130

Martins

QUALITY • CONSISTENCY • SERVICE

MONEYSTONE™

Money Stone Bunker Sand

Pathway Walk Chips
Root-Zone to USGA Specification

Baths Road, Longton,
Stoke-on-Trent,
Staffordshire ST3 2JQ

Telephone
01782 593233

Fax: 01782 598174

HAVE YOU FOUND THE TINY £50 NOTES YET? Track them down and win a REAL £50 note! *Get searching!*

STRIKE TOP TURF BULK SUPPLIES

Dressings, Soils & Sands
Top Dressings
Root Zones
Screened Soils
Sands HMC
Moneystone, etc.

Pathways
Wood Fibre, Coloured
Wood Fibre, available bagged
Woodchip, all grades
Bark, all grades
Cockle Shells

Tree Planting Composts
Keen Prices Quoted ★ Express Delivery
Phone or Fax 0161 456 7109
Mobile: 0831 639798

Grass Cutting Equipment

SAVE MONEY! 

EX DEMONSTRATION AND TOP QUALITY REMANUFACTURED GOLF COURSE MACHINERY AVAILABLE FROM STOCK

RANSOMES TORO JACOBSEN
RYAN HAYTER BEAVER
sis CUSHMAN ROYER
VERTI-DRAIN ISEKI KUBOTA

DELIVERY READILY ARRANGED
Phone for a full catalogue NOW
GREENSWARD
ENGINEERING COMPANY
Manor Farm, Otley Road, Adel,
Leeds LS16 7AL, England
Tel: 0113 267 6000

Grass Seed

Turf Management Systems

for
PRE-GERMINATED GRASS SEED
"LIQUID SOD" SPRAY ON GRASS
TOP DRESSINGS
GRASS SEED
FERTILISERS
HERBICIDES
HORTICULTURAL PRODUCTS
and
All Turfcare Materials

Dromenagh Farm,
Sevenhills Road, Iver Heath,
Bucks SL0 0PA
Tel: 01895 834411
Fax: 01895 834892

GERSON Grass Seed

QUALITY AMENITY
GRASS SEEDS
& WILD FLOWERS

119 Holloway Head,
Birmingham B1 1QP
Tel: 0121 631 2303
Fax: 0121 633 0281

PROBLEM AREAS? Scan-Seeding is the answer

Our unique, mulch-free hydroseeding system will solve your seeding problems on difficult areas such as banks, slopes or where soil erosion may occur.

The unique Scan-Binder soil stabiliser ensures that the seed stays in position until germination and establishment.

Call us now for more details and a quotation on
01372 749909

SCAN-SEED

(U.K.) LIMITED
Franchises available

Irrigation

NORTH STAFFS IRRIGATION
DESIGN AND INSTALLATION
BY AN INDEPENDENT,
FAMILY COMPANY

Tel: 01785 812706 or
Tel/Fax: 01782 395734

A National Irrigation Service

Free consultation and design service

Suppliers of quality products for all types of irrigation

Local installation and maintenance throughout the UK
Specialists in the refurbishment of existing irrigation systems

For further information call
Head Office 01460 241939
Regional offices throughout UK

OCMIS

Design and service you can trust

IRRIGATION CONTROL

Design • Supply • Install • Service

INSTALLATION AND SERVICE
OF IMPACT AND GEAR DRIVE
SPRINKLER SYSTEMS
THROUGHOUT THE UK

England Scotland
Winsford, Cheshire Milnathort, Kinross
Tel: 01606 558927 Tel: 01577 863028

IRRIGATION under CONTROL

HORTECH
SYSTEMS LTD.

TURF IRRIGATION SPECIALISTS

We offer full design, installation and After Sales Service
Hortech Systems Ltd,
Hallgate, Holbeach,
Spalding, Lincs PE12 7LG

Tel: 01406 426513
Fax: 01406 426515

I.L.S. Irrigation Systems & Equipment

For all your irrigation requirements, whether a new installation or system refurbishment - contact us now for a free survey, design, and quotation.

I.L.S. Irrigation Systems & Equipment, Oundle Road, Luton,
Peterborough PE8 5ND.
Tel/Fax: 01832 272450

PARA
(IRRIGATION) LTD
TORO
Installation Sales & Service
N.E. England, Yorkshire,
N. Lincs, N. Derbys, N. & S. Humber-side
Contact: EB & L Simms
Tel: (01765) 602175 Fax: (01765) 603488
Par 4, Unit 18, Camphill Close,
Dallamires Lane, Ripon,
N Yorks HG4 1TT

T. & G. TURF IRRIGATION SERVICES
38 Halfpenny Lane, Knaresborough,
North Yorkshire HG5 0NS
Tel & Fax: (01423) 864963
Full member of B.T.L.I.A.

B SERVICE
TORO IRRIGATION
BELL TURF & IRRIGATION SERVICES
East Midlands Area
Installation, Sales and Service
Everton, Doncaster, DN10 5DR
Tel: (01777) 817410

Watermation

Manufacturers, designers and installers of

GOLF COURSE IRRIGATION FOR 24 YEARS

Tongham Road, Aldershot,
Hants GU12 4AA

Tel: 01252 336838
Fax: 01252 336808

Automatic Watering Systems for Sports and Leisure Grounds
• Designed • Supplied • Installed

GLEN HEAT & IRRIGATION
Pinchbeck, Spalding, Lincs.

Tel: (01775) 722327
Fax: (01775) 725444

Making sure your Golf Irrigation system isn't a handicap.

Head Office and Technical Support:
109 Chapel Road, Hesketh Bank,
Preston, Lancs., PR4 6RU

Tel: (01772) 813571. Fax: (01772) 815885

AQUAPLAST
Putting water in its place

Hunter®

The Irrigation Innovators

Full range including
Valve-in-Head from
S.G.I. Sales

6 Stuart Road,
Market Harborough,
Leics LE16 9PQ
Tel: 01858 463153
Fax: 01858 410085
NOW YOU HAVE A CHOICE!

BRITISH OVERHEAD IRRIGATION LIMITED

Tel: (01932) 788301
Fax: (01932) 780437

£30 INDEPENDENT CONTRACTORS FOR GOLF COURSE IRRIGATION SYSTEMS, UPDATES AND COMPLETE PROJECTS
BEST BUY B.O.I.L.

EXPERIENCE - EXPERTISE
CARE - SERVICE
since 1923
Founder Member BTLIA