Something New Is Heading For Your Course!

Integrate Soil Conditioner, is the unique solution to improve drainage, aeration and restore poor soil structure.

Standing water, poor drainage and anaerobic conditions are all symptoms of a much larger problem - compacted soil.

Water doesn't drain; Air can't enter and Roots won't develop.

Wetting agents can help water squeeze through cracks, but they do little to improve the soil itself - Healthy turf needs healthy soil.

Integrate Soil Conditioner is a unique liquid polymer system specifically developed to impact directly on the causes of poor soil structure. As Integrate moves down through the soil profile its polymers unwind, drawing fine particles together creating additional pore spaces that improve the conditions that cause poor drainage and assist in the removal of standing water. This improved soil structure:

Drains standing water Encourages root development Dissolves hardpan conditions Helps restore effective aeration

e rate

rate

.... Result, a desirable environment for growing vibrant, healthy turfgrass

Integrate is brought to you by your UK Distributor:



Integrate is a product manufactured by Milliken Chemical, USA, the makers of Blazon Spray Pattern Indicator.

ILUKEN 'Integrate' is a Trademark of GreenLink International

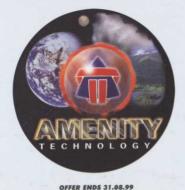
Marketed in the UK & Europe by GreenLink International Tel: (+44) 01245 222750. Fax: (+44) 01245 222755.

SUMMER PROMOTION BAYCO









A Dream

WITH EVERY BAYCO PUTTING GREEN MARKER PURCHASED, RECEIVE A



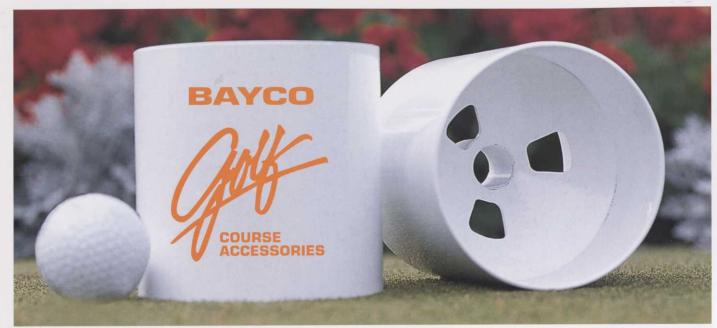




PLEASE RUSH ME DETAILS OF THE BAYCO SUMMER PROMOTION

IAME	A CONTRACTOR OF THE OWNER OF THE	
OSITION		
LUB		
LUB ADDRESS		
POSTCODE		
EL/FAX		

SUMMER PROMOTION







GC 255PL PUTTING GREEN CUP WITH EVERY BAYCO PUTTING GREEN MARKER PURCHASED

COMING UP NEXT MONTH...

FULL DETAILS OF THE AMENITY TECHNOLOGY





5 ARKWRIGHT ROAD, READING, BERKSHIRE RG2 OUL TEL: +44 0118 931 1111 FAX: +44 0118 975 0344 email: amtec@btinternet.com http://www.amenitytechnology.com

AMENITY TECHNOLOG AMENITY TECHNOLOG ALDWARK

0RK

BUSINESS REPLY SERVICE Licence No. YO 331 BIGGA Board of Management Chairman - Gordon Child Vice Chairman - Elliott Small Past Chairman - Patrick Murphy

Board Members Richard Barker George Barr Kerran Daly Jim Paton Ian Holoran

Executive Director Neil Thomas E-mail: neil@bigga.co.uk

Administration Manager John Pemberton E-mail: john@bigga.co.uk

Education & Training Manager Ken Richardson E-mail: ken@bigga.co.uk

Sales & Marketing Manager James McEvoy E-mail: james@bigga.co.uk

Membership Services Officer Tracey Maddison E-mail: tracey@bigga.co.uk

Contact us

You can contact The British and International Golf Greenkeepers Association in any number of ways:

Post: BIGGA HOUSE, Aldwark, Alne, York, YO61 1UF

E-mail: reception@bigga.co.uk

Internet: www.bigga.org.uk

Tel: 01347 833800

Fax: 01347 833801

INVESTOR IN PEOPLE

Use our post-paid reader reply card to obtain further information on the products and services advertised in this issue. Just state the company's Ad Ref numbers, post the card to us, and we'll arrange for further information to be sent direct to you.

Advertiser	Ad Ref	Page
ADAS	289	17
Amenity Technology	431	67, 68
Attack Engineering	621	47
Cameron Irrigation	622	50
Charterhouse	130	38-39
Clubcar	583	30
Countax Ltd	623	26
Driving Force Leisure	624	17
Eagle Promotions	549	29
Evenproducts Ltd	609	49
Fairfield Turf	18	45
Flowtronex	610	19
G T Group	625	11
GCSAI	626	6
Glen Farrow	627	50
Green-Releaf**	563	5
Greenlink International	618	2
Greensward Engineering	312	30
Grundfos Pumps	517	6
H20 Group/Watermatio	n 619	51
Heron Electric Co	628	48
Hydroscape	475	35
Ils Irrigation	525	47
LBS Group	629	42
Marlwood	501	36-37
Ocmis	360	13
Rhône Poulenc	59	63
Softspikes	616	33
T & G Irrigation	630	48
Tarmac	576	19
Textron	9	14
The Roots Company	615	25
Weed Free	504	45
York & Martin	631	49

The official monthly magazine of the British & International Golf Greenkeepers Association

Editorial Editor: Scott MacCallum Tel: 01347 833800 Fax: 01347 833801 E-mail: scott@bigga.co.uk

Advertising Sales & Marketing Manager: James McEvoy E-mail: james@bigga.co.uk Sales & Marketing Assistants:

Jenny Panton, Cheryl Broomhead, Diane Bray Tel: 01347 833800 Fax: 01347 833802 E-mail: sales@bigga.co.uk

Design

Design & Production Editor: David Emery Tel: 01347 833800 ISDN: 01347 830020 E-mail: david@bigga.co.uk

Printing Hi-Tec Print, Units 9-10, Houghton Road, North Anston Trading Estate, North Anston, Sheffield S25 4JJ Tel: 01909 568533 Fax: 01909 568206 ISDN: 01909 550561

Greenkeeper International:

Contents may not be reprinted or otherwise reproduced wit written permission. Return postage must accompany all materials submitted if return is requested. No responsibility can be assumed for unsolicited materials. The right is reserved to edit submissions before publication. Although every care will be taken, no responsibility is accepted for loss of manuscripts, photographs or artwork.

Opinions expressed are not necessarily those of the Association, and no responsibility is accepted for such content, advertišing or product information that may appear.

Circulation is by subscription. Subscription rate: UK £36 per year, Europe and Eire £46. The magazine is also distributed to BIGGA members, golf clubs, local authorities, the turf industry, libranes and central government. ISSN: 0961-6977

tish and International Golf Greenkeepers Association

The Fund provides the key to the future for greenkeeper, golf club and game. Individuals and com-

panies can join the Golden Key Circle and Silver Key Circle. For details, please contact BIGGA on BIGGA GOLDEN KEY and SILVER KEY CIRCLES 01347 833800

Golden Key Circle Company Members Amazone Ground Care, Amenity Technology Products Ltd, Barenbrug, Bernhard and Company Ltd, Charterhouse Turf Machinery Ltd, Hayter Ltd, John Deere Ltd, Kubota UK Ltd, Mommersteeg International, Ocmis Irrigation UK Ltd, PGA European Tour, Rainbird, Rolawn, Rhone-Poulenc Amenity, Rigby Taylor Ltd, Scotts Turf and Amenity, Supaturf Products Ltd, Stylo Matchmakers, Textron Turf Care and Specialty Products, The Grass Roots Trading Company, The Toro Company

Silver Key Circle Company Members Avoncrop Amenity Products, Ernest Doe & Sons, Lambert/Fenchurch UK Group Ltd, Sisis Equipment Ltd, Weed Free



Call Jenny now, on 01347 833800 to reserve your stand at BTME2000

June 1999

Your next issue of Greenkeeper International will be with you by July 7, 1999

Regulars

News Pages 7, 8, 9, 10

- **New Products** 12
- 13 Letters
- 15 **The Learning Experience** It never rains. Jim Arthur discusses sensible irrigation usage
- 17 **Members' Update**

18 Education

Ken Richardson gives advice on continuing your professional development

36-41 Around the Green

64 **Senior Service**

Sandy McDivot highlights the breed of golfer which is now into its back nine

66 **Features Listing**

Helping you track down some of Greenkeeper International's previous articles

66 As I see it ...

Gordon Child reports on the Association's position with regard to the GTC situation



(64) Sandy McDivot: Senior Service



(56) Win £50 with our Buyers' Guide quiz

Do I hear...? Sshhhh!

How would Marcel Marceau fair as an auctioneer? Yes I know it's a bit of a daft question but it's one I found myself asking when I first heard about BIGGA's new Silent Auction.

However, having had the concept explained to me fully I realised that the world's foremost mime artiste would not be in Harrogate next year but that, despite this, the Silent Auction would be a superb event and one in which everyone who takes part benefits.

Donors receive valuable publicity for their donated items; bidders get high quality items for considerably less than they would normally have to pay and BIGGA ends up with contributions towards its Building Fund.

Admittedly it's not an idea for which the Association can take full credit as it has been a successful element of the GCSAA Show in America for a number of years and was debuted at the Canadian Golf Course Superintendent's Show in Toronto earlier this year to great acclaim.

The idea works by companies and individuals donating items to the Auction. These are then grouped into categories. The top five items, valued at £10,000 and over, are classed as The Premier Club and receive maximum publicity in the Silent Auction Catalogue, in the magazine, on BIGGA's Website and at an official reception during Harrogate week. The second category, The Masters Club, for items between £5,000 and £10,000, also receives extensive publicity and the third is The Classic Club, for items ranging in value from £5,000 down to a minimum of £250

Bids sent via post, fax, e-mail and telephone to BIGGA HOUSE and in person during BTME 2000 itself will be gathered and the highest bid for each item will secure the lot when they are announced on the final day of the show. The top items will be on display at a special Silent Auction stand in Hall Q where you will be able to see at close hand your intended prize and assess how little you might be able to bid and still come up smiling. I must admit I was a little disappointed that

I must admit I was a little disappointed that we wouldn't be seeing the theatre of a real live auction, complete with fast talking professional, but while the drama of a conventional auction might have brought additional excitement to the occasion, removing the worry of waving to a friend and ending up with a £15,000 bill for a triple mower or scratching your ear and finding yourself with two tonnes of organic fertiliser is more than compensation.

Experience is a necessary quality for any conventional auction visitor so the "Silent" method gives even the total rookie a chance of securing a magnificent bargain and saving a golf club a considerable sum of money. There will also be many items of personal interest for which to bid. I believe the Silent Auction will

believe the Silent Auction will certainly add to what is already destined to be an unforgettable BTME 2000 and hopefully it will become an established element of all BTME's to come.

> Editor: Scott MacCallum

Greenkeeper



Features

Sleeping Beauty

Scott MacCallum visits Thorpeness Golf Club and finds an idyllic venue caught in a time warp

31 Into the Future

We asked some of the big machinery manufacturers how they have adapted to the needs of the modern day greenkeeper

42 Going West

21

South West and South Wales Regional Administrator, Paula Humphries, reports on the new look Westurf Exhibition

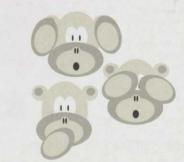
43 Senses Working Overtime

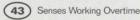
Roland Taylor looks at ways in which you can use your own in built sensors to check on the well being of machinery

52 Great Scotts

BIGGA Golden Key Supporter, Scotts, has been particularly busy in the last couple of years. Not only purchasing other companies but coming up with exciting new products











Ref 626

Ad

Sportsturf IRELAND

3-4 NOVEMBER, 1999

The Golf Course Superintendents Association of Ireland biannual turf maintenance exhibition is being held in the main hall, RDS, Dublin on 3&4 November 1999.

Can you, as an exhibitor, afford to miss out?

This is an ideal opportunity to:

- ★ Research the Irish market
- ★ Strengthen existing relationships
- ★ Identify new distributors
- ★ and, importantly, meet new customers

For information regarding stand cost, availability etc, please contact Tracy Coburn, GCSAI -

Tel: 01238 533667 Mobile: 07803 237247

Just the job

To place an advertisement in the Recruitment Section, call Cheryl or Diane now on 01347 833800





Water supply and irrigation systems start with GRUNDFOS PUMPS...

Whether for sports turf irrigation, horticulture or rural water supplies Grundfos has an extensive range of pumps and equipment for a wide range of applications in the water supply industry.

A recently extended range of borehole submersibles and vertical multistage booster pumps complement a

wide choice of pac sets for 'one-stop' plant supply.

For full details of Grundfos range, ' our leaflet hotline now on 0500 00262

> GRUNDFOS PUMPS LTD. GROVEBURY ROAD LEIGHTON BUZZARD, BEDS. LU7 8TL

Sportsturf Conference for Millennium

The first event of a new biennial European Scientific Sportsturf Conference - EuroTurf 2000 - is being planned for the first week in July, 2000, by Rhone Poulenc Amenity and the STRI.

"We have asked sportsturf researchers across Europe what length of conference they would like and the majority have requested a two day event," said Austin Davies, Business Manager at Rhone Poulenc.

"Creating a forum for the exchange of ground breaking research in European Sportsturf is seen by Rhone Poulenc as a great means of starting the new millennium with renewed drive and commitment."

Dr Mike Canaway, Chief Executive of the STRI, is planning to launch a

European Turfgrass Association at the conference.

"I am currently discussing with colleagues in Europe the possibility of the formation of such an Association to improve the flow of information between EU Member States and between researchers, commercial companies and end users," explained Mike.

Stephen Noye

It is with great sadness that I report the death of Stephen Noye, Head Greenkeeper of Purdis Heath Golf Club, at Ipswich. He will be greatly missed by his family, friends, members of BIGGA and the members of Purdis Heath. Ian Willett

East Anglia Section Secretary

An eventful life

News of the death of one of the greenkeeping's elder statesmen has reached BIGGA HOUSE.

Pat Kirkpatrick, Head Greenkeeper at Dulwich and Sydenham Hill GC, for almost 30 years, and father of John Kirkpatrick who succeeded him for a further 20 years, was 94.

In an eventful life he was a professional golfer and worked in the professional shop beside another assistant by the name of Henry Cotton.

In 1926 he became Professional/ Greenkeeper at Lake Garda in Italy and played in the first Italian Open in 1926 finishing third.

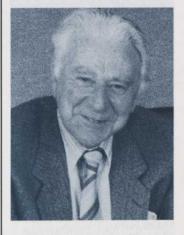
In 1939 he moved to Pallanza where he took over from JH Taylor who had laid out the course. From there he moved to Lugano where among others he gave lessons to the Aga Khan and Baron von Thyssen, who warned him of the forthcoming Second World War and advised him to return home.

At Dulwich he also helped serve behind the bar and was universally popular, and he even after his retirement in 1975, he continued to work part time.

¹ A workaholic, the lady of a house which backed onto a green asked Pat that as it was 6.30am could he not leave the green in front of her house until last.

"Madam, this is the last," he said.

Derek Hargreaves



It is with great sadness that Sisis report the death of their retired Chairman, Derek Hargreaves, at the age of 86.

Derek Hargreaves was the son of the founder of Sisis and father of Roger and William, the current Joint Managing Directors. He received the Institute of Groundsmanship Lifetime Achievement Award in 1998.

John makes award a 'Shaw thing'

Toro Commercial Product's dealer, John Shaw Machinery, has carried off the top prize in the latest annual dealer awards having been voted Best Overall Dealer for 1998. It comes at a particularly busy time for the company which last year added Surrey, South London and East Berkshire to its existing territory of Sussex and Kent while it is also opening a new service depot in Gomshall, Surrey.

Managing Director, John Shaw is pictured receiving a plaque to commemorate the win from Peter Mansfield, General Manager for Toro Commercial Products at Lely UK. Other members of the John Shaw team also pictured are David Cole, Marketing Director; Steve Vogels, Sales Director, and Miranda Meaden, After Sales Director.



Investors in People

But just how many people does it take to put up a plaque?



Following last month's announcement that BIGGA had achieved "Investors in People" status the Association now boasts a fine plaque for the wall of BIGGA HOUSE. A formal presentation will be made to the Association at a later date but Neil and the rest of the team are currently busy working out how to put this up.

Eamonn Wall introduces new Directors



Two new faces at BIGGA HOUSE

Two new faces... and voices can be seen and heard at BIGGA HOUSE with the appointment of Diane Bray, left, as the latest mem-ber of the Sales and Marketing team, and Christine Thackrah, right, as Receptionist/Clerk.

Diane joins the Association from Plumb Centre where, based in the Head Office in Ripon, she worked in the marketing department working on sales and designing and produc-ing the company's brochures.

She has a Business Studies Diploma and is currently studying for Charter Institute of Marketing qualifications at York College of Further Education alongside one of her new colleagues, Jenny Panton.

Diane, has a 12 year-old son, James, and has previously worked for the Ministry of Defence in Germany.

She enjoys travelling, having



notched up an impressive array of passport stamps.

Christine actually began working at BIGGA HOUSE on the day it opened in a part-time capacity but she has recently taken up the newly-created full time position. She previously worked for the

Joseph Rowntree Housing Trust in



York and before that was Secretary to the Marketing Director of Waddington Games, the company which produces Monopoly.

She is a season ticket holder for Leeds United, having been a fan since the age of 10, and enjoys walking her two King Charles spaniels, Becky and Cassie.

A double whammy for Elmwood College

Elmwood Golf Course has achieved a unique double award for its commitment to the Environment and Wildlife Conservation Initiatives.

Jonathan Smith, of the Scottish Golf Course Wildlife Group, pre-sented the Golf Course with the international award for protecting the environment - ISO 14001 and The Scottish Wildlife Charter to John Quinn, Director of Elmwood Golf Developments, with Elmwood the only UK course and one of only two in Europe to achieve the former.

"The ISO14001 Award represents a major advance in integrating environmental management into all aspects of their operations. As the first college and golf facility in the UK to receive the award this is a milestone not only for the college itself but also for colleges and golf courses across the country," said Jonathan.



We look forward to assisting the college in their progress towards full certification in the Pan-European Committed to Green programme."

Pictured are Steve Johnstone, John Salter, Andrew Morrison, Jonathan Smith, John Quinn, Irene Jones and Stuart MacDonald.

Eamonn Wall & Co has appointed Alastair Seaman, (top) and John Nicholson, (above), as Company Directors, joining Managing Director, Eamonn Wall on the Board following the firm's recent incorporation.

Alastair, 30, joined the company in 1994 and is based at the firm's Dollar office. He graduated from Edinburgh University with a joint forestry/agricultural degree and has since obtained a MSc in Forestry from Oxford Forestry Institute. John, 42, joined the firm in '95 hav-

ing completed an HND in Arboriculture at Houghall College in Durham and is based in Durham. He is a keen golfer, lectures occasionally at Houghall College and is currently writing a book about Trees in the Golfing Landscape.

Eamonn Wall & Co has a team of ten, seven in Scotland and three in England.

Ernest Doe & Sons Ltd has been named by Textron Turf Care and Specialty Products as United Kingdom Dealer of the Year for 1998. The Dealer of the Year award recognises outstanding sales growth and excellence in parts and service support for customers. The presentation was made at a dealer meeting during the recent Golf Show, held in Orlando, Florida, USA. A special guest at the meeting was golf legend Arnold Palmer, who participated in the presentation.

Ernest Doe & Sons Sales Manager Andy Turbin accepted the award from Palmer (centre left). Also pictured (left to right) are Textron Golf, Turf Care and Specialty Products Group CEO Carl Burtner; Textron Turf Care And Specialty Products Marketing Director Peter Bell and Sales Manager Andrew Sunaway.

From Arnie to Ernie



St Andrews contract won by E-Z-GO



Ian Forbes shakes hands with Harold Pinto, with Eddie Adams and Andrew Sunaway looking on

Textron Turf Care and Specialty Products has signed an agreement with St Andrews for the exclusive supply contract with the club for the company's E-Z-GO golf cars.

St Andrews has taken delivery of eight E-Z-GO petrol golf cars for the rental market, ten E-Z-GO cars for use as ranger vehicles and five E-Z-GO Workhorse utility vehicles. David McInroy, Managing Director of Scottish Grass

Director of Scottish Grass Machinery, distributors of the Textron range of products in Scotland, said, "Obviously this is a very high profile contract to win so we are delighted to see E-Z-GO on the course at St.Andrews. It was particularly pleasing to us as we already had an exclusive supply contract with St.Andrews for Textron turf car products."

Textron turf car products." The eight golf cars will be available to hire on the New and Strathtyrum Courses for senior citizens and the disabled. The ten range vehicles are E-Z-GO golf cars specially fitted with Mauser cabs to protect the operators from the elements and have two seats with an additional flip-flop seats for increased flexibility. They will be used for the rangers to patrol the courses.

The five E-Z-GO Workhorse 1200s feature a 48-inch bed fitted with large cage attachments for litter collection and maintenance work.

As part of the four year contract, Textron will also be supplying additional E-Z-GO golf cars and Workhorse utility vehicles for the 2000 Open to be held at St.Andrews next year.

Joint venture has mark of prestige

Hepworth Minerals and Chemicals and Tarmac Quarry Products have launched a joint venture company to be known as Prestige Sports Surfaces Ltd., which will specialise in the marketing and sale of sands, gravels, pre-blended root zones and top dressings for use in sports, leisure and horticultural applications.

The aim of the new company will be to satisfy the diverse demands of customers and the market by offering the broadest possible range of consistent quality products.

The range of products, unique to a single supplier, will be available throughout the UK by taking advantage of the extensive number of quarries operated by both companies and using the combined extensive distribution systems.

Day to day responsibility will rest with General Manager of Prestige Sports Surfaces, Cliff Ogden, who will report to the Board of Directors nominated by HMC and TQP.

There will be a dedicated, specialist sales team seconded to the new business, supported by a central sales office where all enquiries, deliveries and technical support will be co-ordinated.

The existing Pro-Sport and Topsport product range including sands, root zones, top dressing, drainage gravels and pathway gravels will continue to be available from the joint venture company along with a developing range of new products suitable for the construction of sports surfaces.

Chinese delegation in Fife

Elmwood College has hosted a delegation of top-level academics and business people from the People's Republic of China. Elmwood is developing the enormous potential of the Chinese market for training and consultancy in greenkeeping, golf course management and golf course maintenance.

During the week delegates from the Golf College Shenzhen University, China Agricultural University in Beijing and Purple Clouds Golf Country Club visited golf courses all over Fife, and played the Old Course at St Andrews.

Discussions took place with Elm-



wood representatives and culminated in the formal signing of letters of intent at a Reception on Thursday 15 April. There to witness the signing were Chinese Vice-consult Chen Wenbing, Sir Michael Bonallack and guests and representatives of companies who are supporting the project.

College Principal, Christina Potter, is pictured with Julia Minn, Golf College Shenzhen University, following the signing of letters of intent.



Contact us

You can contact The British and International Golf Greenkeepers Association in any number of ways:

Post: BIGGA HOUSE, Aldwark, Alne, York, YO61 1UF

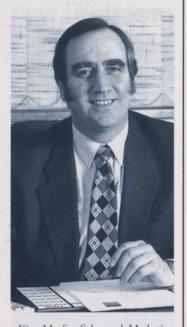
Tel: 01347 833800

Fax: 01347 833801

E-mail: reception@bigga.co.uk

Internet: www.bigga.org.uk

Macfie for President



Kim Macfie, Sales and Marketing Director of Hayter Ltd, has been elected President of the Agricultural Engineers Association for 1999/2000. Kim has been Chairman of the AEA's Outdoor Power Equipment Council for the last two years and a member of the finance and general purposes committee since 1993.

Flowtronex help to pump up St Andrews

Flowtronex Europe has just completed the handover of what is probably the biggest ever irrigation pump set in the UK for St Andrews Links. The pump set can pump water at a rate of 540 m3/hour at 9 bar to all of the St Andrews courses.

"It was a complex project and we are absolutely delighted with the progress made," said Links Manager Ian Forbes.

Attending the hand over ceremony, Flowtronex Europe Managing Director, Steve Hockley said;"It is an honour to be part of such a prestigious project."



Two new product ranges from Avoncrop

Avoncrop Amenity Products has launched two new product ranges.

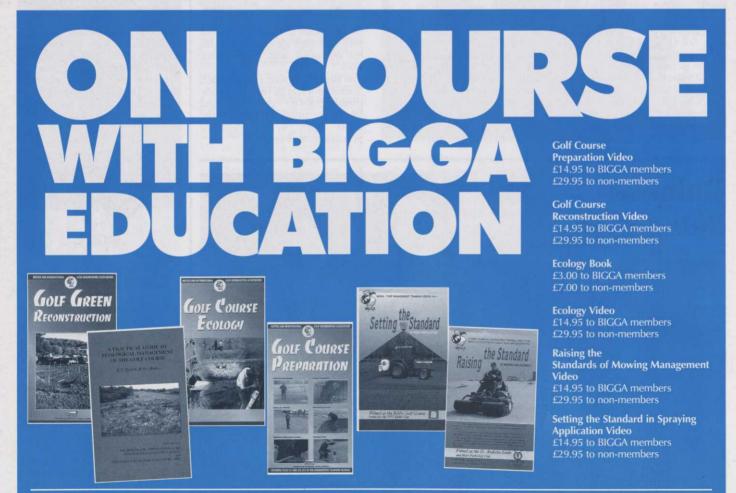
Surf to Turf is a range of seaweed products, imported from the Irish Republic, with five liquids all based on the the seaweed species Ascophillum Nodosum with added humic acid, chelated iron and various NPK levels.

The products contain naturally occurring bio stimulants and micro nutrients including calcium, helping to produce healthy turf with increased tolerance to stress.

The Roots range of products, imported from the United States, have four formulations. Roots 2 concentrate is a bio stimulant with humic acid kelp seaweed and complex carbohydrates which encourages better root development increasing the root to shoot ratio, improving the plant's ability to cope with stress as well as the uptake of applied fertilisers. Fe 8% is a chelated product giving green up within 24 hours but with good longevity, leaving no residues in the soil.

Iron Roots is a combination of both Roots 2 and Fe 8% offering the advantages of both in one spray application while Roots 1-2-3 Premix is a three way product designed to prevent and alleviate stress in turf.

^{*} For further information Tel: 01934 820868.



British & International Colf Greenkeepers Association, BIGGA HOUSE, Aldwark, Alne, York, YO61 1UF Tel: 01347 833800 Fax: 01347 833801 Email: education@bigga.co.uk