

For **GOLF**, the brand is **JACOBSEN**, the colour **ORANGE** and the number to call is **FREEPHONE 0500 026208**.

JACOBSEN



BIGGA'S Membership Services Officer, Tracey Maddison, would like to welcome over 220 new members, and give some important information for BIGGA's overseas members

It's never too late for renewals!

Time Flies ...

If your membership expired in December 2000, January or February 2001, it is still not too late to renew. Just contact Tracey or Susannah in Membership Services for information on how to renew your membership.

If you have retired from greenkeeping or are about to retire, your membership doesn't have to retire with you. Why not apply for retired membership and keep in touch with your friends and the industry and carry on receiving your valuable copy of Greenkeeper International. Just ring Tracey or Susannah at BIGGA HOUSE.



Great News ...

After last months successful GCSAA show in Dallas, BIGGA have received over half a dozen application forms from Greenkeepers who visited the show, making a total of almost 50 BIGGA members in the USA. BIGGA now has over 250 overseas greenkeeping members in total, situated all over the world.

Time to Talk

Need to chat with other greenkeepers about a work related problem? Don't go it alone, gain advice from your fellow greenkeeper members. Visit the Members Area bulletin board and start a discussion within seconds. This is a new service providing all greenkeepers the opportunity to discuss any topic of interest relevant to the profession. If there isn't a bulletin board of interest, create a new one. Visit www.bigga.org.uk and login to the members area for an exciting and communicative experience.

You've got mail!

If you've got an email account why not send an email to the membership department, where we can place you into our exclusive members email address book. We can then keep you up to date with membership news and events as they happen.

Send an email to: membership@bigga.co.uk tracey@bigga.co.uk susannah@bigga.co.uk

Eurocheques are no more

For all those overseas BIGGA members who have previously or are thinking of paying for their membership by Eurocheque, unfortunately, the UK banks are no longer accepting these as valid forms of payment. Included with your renewal form will be information on other ways to pay including BIGGA's banking details.

If you have any questions, please email either tracey@bigga.co.uk or susannah@bigga.co.uk for further information.

March's Monthly Membership Draw Winner

Just introduce one or more new greenkeeping members to BIGGA and your name will be placed into a draw to win a fantastic BIGGA sportswatch. Our congratulations go to March's winner, Paul Peasgood of Stoke Rochford GC.

BIGGA welcomes ...

Scottish Region

Robert Allan, North
George Anderson, Central
Austen Cameron, Central
David Cartmill, Central
Stuart Crossan, West
Angus I Forbes, North
James P Fox, Central
Richard Johnstone, North
John Kelly, West
Christopher Lamarra, West
Christopher Lamarra, West
Christopher Mayle, West
Allan R McBeath, North
Graham McDonald-Malia, East
Alan I M More, West
Stuart Orr, West
Norman D Rose, North
Craig Ross, West
Thomas Simpson, Central
Douglas Steele, West
Andrew J Tully, Central

Northern Region

Gary Anderson, Northern Jamie Barlow, N West David M Chadwick, Northern Mathew Corbishley, N West Craig A Finnegan, Northern Leonard Frith, Sheffield Christopher Grain, N Wales Martin J Green, Northern Steven Holmes, N East James Holye, Sheffield Dylan H Hughes, N Wales Stefan G Jones, Northern Alwyn Jones, N Wales David A Kendall, Northern Brian J Kirkby, Northern Bri

Midland Region

Robert Beeby, BB&O
Grant D Birchnall, E Midland
Matthew Brown, BB&O
Geoffrey H Carrigan, BB&O
Alan Coburn, BB&O
John M Davies, E Midland
Steven J Duffy, Midland
Graham Evans, BB&O
James Fletcher, Midland
Paul French, E Midland
Maurice Gardener, BB&O
Steven Grundy, BB&O
Gary A Hainsworth, Mid Anglia
Matthew Hicks, BB&O
Alastair D Higgs, BB&O
Danny R Kirby, E Midland
Andrew R Miller, Midland
Andrew R Miller, Midland
Andrew R Miller, Midland
Coller Babeo
Michael P Rapley, BB&O
Keith Rawdin, E Midland
Craig Souter, Midland
Aaron R Thompson, E Midland
Caraig Souter, Midland
Caraig Souter, Midland
Caraig Souter, Midland
Aaron R Thompson, E Midland
Caraig Souter, Midland
Caraig Midland
Caraig

South East Region

Stuart R Abbott, London Steven Allchorne, Surrey Keith Allen, Kent Alan Banks, Sussex Simon P Barker, Surrey John D Boughton, London John M Burton, Surrey Peter Chambers, Surrey Kevin Clark, Surrey Jay A Clark, Essex Joseph Clements, Sussex Scott R Colgate, Essex Nigel S Crittenden, Surrey Michael Dilliway, Essex Boyd J Evans, Essex
Andrew Ewart, Surrey
Andrew Ewart, Surrey
David J Farmer, E Anglia
Mark Farrer, Surrey
James D Folly, London
Daniel R Giacche, Surrey
Andrew S Glasby, Sussex
Geoff Glazier, Sussex
Geoff Glazier, Sussex
Rhys J Grenham, Sussex
Michael Groombridge, Sussex
Adam Gunn, Surrey
David Hailes, Surrey
Kirk Hall, Surrey
Steven Harding, Surrey
Andrew M Heffernan, Surrey
Steven Harding, Surrey
Alan G Kemp, E Anglia
Anthony Keywood, Surrey
Mark R Kiff, Essex
Andrew Lee, Surrey
Raymond McClatchie, Sursey
Raymond McClatchie, Sursey
Raymond McClatchie, Sursey
Samon Murphy, E Anglia
Timothy J Nicholls, Sussex
James Pickess, Essex
Tobias G Rae, Surrey
Steven Ramsey, Sussex
Noel Ryan, London
Daniel D Shaw, Surrey
Peter C Snell, Surrey
Simon Westwood, Surrey
Stephen Williams, Kent

S West & S Wales Region

Matthew Allan, S Coast James Anderson, S Wales Steve Bartlett, S Coast Greg Bowes, S Wales Robert D Brock, S West Ambrose Caldwell, S West Alastair Chubb, S West David T Cox, S Coast David S Crowther, S West Nigel J Davies, S Wales Alan Draper, Dev & C'wall Brian Forder, S Coast William J Green, S Coast lan Henshaw, S West Stephen Hill, S Coast Kyle J Holmes, S Wales Paul Howe, S West Gemma V E Jones, S Wales Gareth Keirle, S Wales Daniel P Kemp, S West Martin Knight, S Coast Simon Main, S West Antony C Newland, Dev & C'wall Darren Perrett, S West Gian Povey, S West Anthony Scott, Dev & C'wall Phillip H Thomas, S Wales Andrew R Walker, Dev & C'wall Kevin D Williams, S Wales Gareth R Yandell, S West

Northern Ireland

Liam J McVeigh

International Members

Thomas Lauritzen, USA Klaus Thorsen, USA Gordon J Howat, USA Ron Forse, USA Brian W Powell, USA Randy Van Fleet, USA

Corporate Members

Agostino Gaude, Italy Rick Elya, USA Nathan Bond, BB&O John M Bradwell, F of England Mike Bridge, BB&O Scott Sanders, BB&O Simon Thornton, BB&O Andrew Haggar, Surrey Tim Lobb, Surrey Ross McMurray, Surrey Russell Talley, Surrey Andrew Wood, Sussex

Associate Members

Taibin Tang, China Christopher Brown, North Ian Osborough, Central Clive Edgar, Sheffield Graham B Goodyear, Sheffield Nicholas Gray, N West I F Gilmour, Midland David M Portre, E Midland Andrew J Williams, E Midland Robert Fisom, E Anglia Paul John Moran, London Mel Thomas, Surrey Ashley Williams, Surrey Peter Appleton, S Coast Joseph J Crawley, S Coast

Student Members

Christopher Baldock, Central Andrew Coughlan, Central Ian Morrison, Central Heike Pascha, East Lee Relf, Central Wesley Walker, Central Keith Walton, Central Faul A Avison, N West Mark Heveran, N West Russ Wilson, N West Russ Wilson, N West Russ Wilson, N West Michael C Love, E of England Edward A Morley, Midland Jacob Morries, BB&O Bryan J Rampton, E Midland James Rawsthorne, Midland James Rawsthorne, Midland Christopher R Patey, Kent Maxwell Wheeler, Surrey Luke Fulkus, S West James Mitten, S West William Naylor, S West William Naylor, S West William Naylor, S West





Usually the spotlight falls on the Course Manager or Head Greenkeeper at a Club.

Now it is the turn of those whose work often goes unheralded to star.



Name: Steven Nicol

Club: Winterfield GC

Position: Assistant Greenkeeper

Age: 31

1. How long have you been a greenkeeper?
14 years

2. What education are you currently undertaking?
None

3. Which one task do you most enjoy doing?
Cutting greens

4. Which one task do you most dislike doing?
Soil and seeding divots

5. What job other than greenkeeping might you have ended up doing?
Brick layer

6. Who has been the biggest influence on your career? Former Head Greenkeeper, Stuart Greenwood and present Head Greenkeeper, Craig Pennycuick

7. What would you do to improve the life of a greenkeeper?

More education for golfers

8. What are your hobbies? Golf, darts and football

9. What do you get out of BIGGA?

Educational seminars, magazine, meet other greenkeepers at outings

10. What do you hope to be doing in 10 years time?
Course Superintendent on one of the top Golf Courses in the world



Get online this month, and find out about BIGGA's latest additions to the website. From brand new content to improved Bulletin Board access, online is the way forward...

Get online and surf the BIGGA Web...

If you are worried about diving in, now is your chance to immerse yourself in the BIGGA website. And don't worry, when you surf the site, you won't even need a wetsuit!

Packed with news, features and educational content the BIGGA site is presented in a clear and concise format. What's more, each item carries hyperlinks to many other relevant topics, to save you having to fish around, and best of all, we're adding new information all the time, so the site is constantly getting BIGGA and better!

Brand new initiatives include news and feature articles from the Association's monthly magazine, Greenkeeper International, enhanced Directory search Greenkeeper facilities, improved Bulletin Board topics

" Scratch?

and an updated events section.

Greenkeeper International is the industry's leading publication, regularly informing members of new initiatives and opportunities within the turfcare industry. Packed with news and features every month, the magazine has a subscription currently over 9,000, but that is only a quarter of the monthly traffic to the BIGGA website.

We regularly update the Greenkeeper International section of the website with content from the magazine BEFORE the mailing date. So if you want to read about what's going on in your industry, and can't bear to wait for your magazine, log on to the BIG-GA website today, and join the thousands of other online users.

The Time to Talk Bulletin Board was launched just before BTME, and enables greenkeepers to exchange news, views, tips and tricks between each other. The more subjects that are discussed, will help to create an online community which will grow in numbers and in shared knowledge. There are currently



and the list is growing on a daily basis, but with a membership of over 7,000,

that's just a drop in the ocean!

If you need help or advice with any greenkeeping matter, then log onto the Time to Talk Bulletin Board, and register today. It's quick and easy to do, and as soon as vou've posted vour query, you can sit back, and watch the responses flood in.

If you have any comments or questions regarding the BIGGA website, we'd be delighted to hear from you. After all, the website is another tool you can use for either information or communication, and we can only improve it by listening to comments from you. Pléase address your email to <webmaster@bigga.co.uk>

Got a question to ask or have some information or comments to pass on? Contact us via email at the relevant address below

Membership Services membership@bigga.co.uk

Education & Training education@bigga.co.uk

Editorial/PR

scott@bigga.co.uk Sales & Marketing

sales@bigga.co.uk

Finance admin@bigga.co.uk

Design Services david@bigga.co.uk

Website webmaster@bigga.co.uk

General enquiries reception@bigga.co.uk

The 2001/2 BIGGA Golf Directory www.bigga.org.uk/directoryapp.html 2001-2002 BIGGA

Get online and visit the BIGGA website where we are now taking orders for industry entries in our 2001/2 BIGGA Golf Directory. Packed with thousands of industry names, addresses, telephone, fax, email and website contacts, the BIGGA Golf Directory is the most comprehensive guide to the products and services in the turfcare industry.

Published annually, the Directory is a stand-alone publication which provides the industry's buyers with an unrivalled database of contacts from which to make their buying decisions. Easy to use, with over 125 individual product categories, the Directory is proving to be a major resource for buyers as they search for industry contacts. Can you afford NOT to be included?

Entry into the 2001/2 edition starts from just £110 for 3 category listings, with your contact details automatically included in our searchable Online Directory, absolutely FREE of charge! To find out more about the various advertising opportunities available to you and your company, call Cheryl Broomhead on 01347 833800 or send an email to cheryl@bigga.co.uk

DESCRIPTION	LISTINGS	FREE WEB LISTING	ONLY
Minimum entry INCL	UDES 3	V	£110
Quarter page ad INCL	UDES 3	V	£315
Quarter page DPS INC	LUDES 6	V	£575
Half page ad INCLUI	DES 5	~	£575
Half page DPS INCLUI	10 I	V	£840
Full page INCLU	10	~	£1,050
Full page DPS INCLU	DES 15	V	£1,575

www.bigga.org.uk/directoryapp.html

cheryl@bigga.co.uk

Call Cheryl at BIGGA HOUSE on

01347 833800

A new career in Germany for Andrew Jeffrey together with Peter Haggarty has opened the door to a whole new set of challenges ...

Under one roof

As an experienced Landscaper of 15 years and pretty set in my working ways, starting my first day's work as a Greenkeeper was very daunting.

I had decided some six months prior to April '98 to try and find work on a golf course, firstly because I am fascinated with the sport, and secondly I wanted a new challenge and considered that perhaps a golf course could use a landscaper from time to time.

I was very lucky to be offered a job as Greenkeeper/Landscaper at Golfplatz Munchen Nord-Bichenried in March '98. I had lived in Germany since October '92 so I could speak German fairly well but nevertheless I was very relieved when I met the Assistant Head Greenkeeper who turned out to be Peter Haggarty, recently moved over to Germany from Helensburgh Golf Club in Scotland.

Hearned very quickly that Peter is a very talented golfer (plays off scratch) and has a terrific enthusiasm for everything in greenkeeping and in particular course development and construction. Like me. Peter is constantly trying to find ways in which you can improve on things, or how you can do something better next time. One thing, however, struck me after a fairly short while which was every time a new bunker was constructed, or if ideas for course upgrading were to be considered, the Club would ask outside companies for advice and eventually a quote. My thinking then was "we could do that" and "why should we bring in outside help when we are capable of doing the work ourselves".

Essentially, keeping everything "under one roof' seemed to be an obvious way forward for a number of reasons. Firstly, if you have experience in construction and a sound knowledge of up-to-date construction techniques, then why would you bring in outside help? Secondly, I am convinced that if you are passionate about something you will always give 125% to achieve the best possible result. Also, you can be justifiably proud if you have been directly involved and the finished product works and looks good, and finally the cost sayings to the club are enormous.

With this in mind, we started talking to our Club Manager, Dieter Von-Restorff, who listened to what we had to say and didn't dismiss the idea as ridiculous as we had feared. The outcome was that there was indeed work that we could undertake and our first project was to make a feature out of a very neglected pond sitting very close to our 4th green. I saw it as an opportunity to really upgrade the area while Peter saw it as an opportunity to really enhance the hole from the perspective of playability. We worked together on

ideas and the end result was a greatly enlarged pond which came in much closer to the green with a stone retaining wall which gave great definition to the hole and a new fore green. The

whole thing worked and definitely enhanced the look of the hole.

As a result more ideas were discussed and in the winter of 98-99 we started work on a big project which would entail the complete upgrading of one of our par 5 holes. It included the construction of a 1200sqm pond, over 150 metres of stone retaining wall, the complete reconstruction of the fore green and a new bunker. This was indeed a big project because, not only are we a private members' club but also the host to the BMW International Open played in late summers. So we had to build something that was fair for our members but also a test for the Pros who visit us. We were very pleased with the result (see photos), the members liked it, and as some of the scores on that hole showed during the tournament, indeed a good test for the Pros.

Since then we have undertaken many projects and it is as a result of being able to communicate to a Committee and Club Manager who are prepared to listen, that has allowed this to happen. We are indeed fortunate.

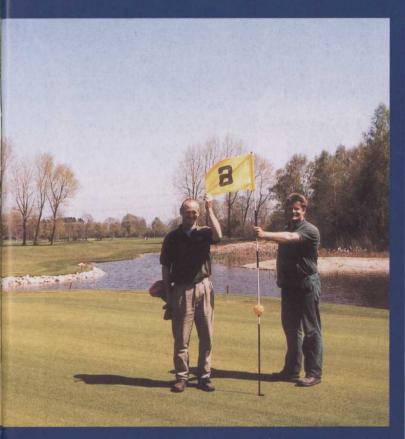
Currently, we are completely upgrading our practice facilities, and have as of now, built ten target greens on the driving range, constructed a new bunker practice area, including a new green, a pitching area encircling a green, and a new 550sqm chipping and putting green. All these

Main picture: The par 5, 6th hole, completed, prior to opening. Myself (Andrew Jeffrey) on the right of flag, and Peter Haggarty, left

Far right: Construction of a dry stone retaining wall around the first tee

Below: The almost complete first tee, shortly before opening







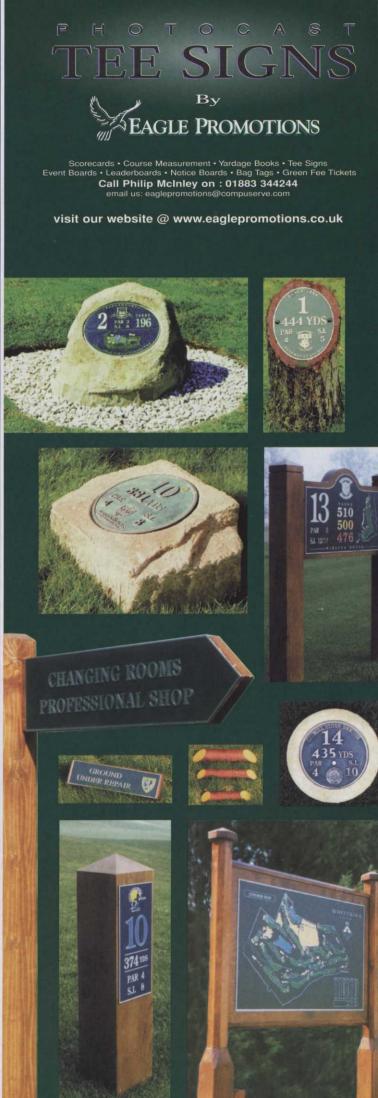
reatures are of course very usable but we see them as a natural development of our golf course and as such can offer much more to our members and guests and indeed the Pros when they are here. We think it is essential that people should be offered the most that the Club can provide and we are always looking at ways in which we can improve our product, which in turn keeps members interested and generates much needed cash to help the Club stay healthy.

Perhaps we are lucky here in Bavaria

Perhaps we'are lucky here in Bavaria because the winters can be quite long which allows us to undertake construction projects when active greenkeeping is not possible but I think it is very refreshing to have club management who are prepared to listen to what greenkeepers have to say. After all, we are all members of the same team and the success of the team is only as good as the people within it, so if you all work together then surely you will be successful.

We are currently building a new 9-

We are currently building a new 9-hole course and the Club has asked that Peter and I oversee the construction. Again, a very positive approach, in respect that although this is a huge responsibility, the Club appreciate that we will have to manage this Course when the constructors have gone home so it is essential we know how it is constructed so we can plan maintenance schedules more precisely for the future. A good argument then for "keeping it all under one roof".



TAKE THE LASTEC GLATER STEC

and win a chance for a free, expense-paid USA trip to the No Limit Racing School!*

Just call for a no-obligation demo at your golf course. We'll bring the LASTEC articulating rotary mower of your choice, and cut the toughest sections

on your course. You'll see rotary finish mowing at its best, AND get a chance to test your driving skills on a banked oval!



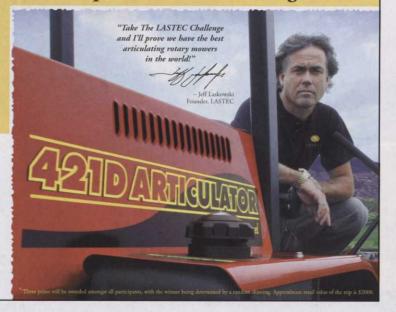
Demonstrations can be arranged by calling your local LASTEC distributor

LASTEC® UK, LTD.

a Division of Wood-Mizer Products, Inc.

Court Lodge Farm, Kenward Road • Yalding, Maidstone Kent ME18 6JP Tel: 01622 812103 • Fax: 01622 815534

www.lastec.com





HARDI Amenity Sprayers New Specifications to meet the HSE and Groundwater Regulations

Boss with Defender boom



The HARDI Defender booms are the ONLY amenity shrouded sprayers to have 3 Star LERAP approval, which will allow you to reduce the buffer zone around water from 6m to just 1m.

Cooper Pegler



Cooper Pegler is the preferred choice for professional users, with a range that consists of knapsack, compression and defender type sprayers.

Mini Defender



Ideal for greens, cricket squares or other fine turf areas, the Mini Defender is self-contained with a 1 metre wide shrouded boom and 30 litre capacity tank.

Specialists in the field of Amenity Spraying



HARDI Ltd.

4-5 Watling Close, Sketchley Meadows Industrial Park, Hinckley, Leicestershire LE10 3EX

Tel: 01455 233811

Cedric Johns looks at the common but misunderstood phenomenon lightning and examines the best way to avoid being struck

from the blue

Despite what we may think, this country is fortunate that Despite what we may think, this country is fortunate that in general terms, our weather patterns do not generate electrical storms with the same intensity as those experienced in other parts of Europe's say in Southern France, Spain or Portugal - nevertheless, when lightning strikes it can be lethal, especially on the wide open spaces of golf courses.

f golf courses.

Lightning is responsible for thought provoking fatality rates: in the United States for example, lightning strikes kill over one thousand people each year, causing severe injuries to another

1,500 - 2,000 individuals.

Before dismissing these figures with the thought that America is far removed from the UK golfing scene, be aware that although lightning strikes in this country are not as common as overseas, statistics indicate that the number-and severity-of electrical storms has increased, especially in southern England.

A lightning strike, causing damage, personal injury or worse, a fatality on any golf course is one strike too many. When, last year, a player was injured by lightning at The Wisley Club, club officials reacted with commendable responsibility)

Having taken advice, they decided to minimise the risk of fimilar, future incidents by installing an electrical storm warnng system to protect players and green staff out and about the 36-hole course.

Known as ESID - Electrical Storm Identification Device the system, already in use in this country on R&A tour-

nament courses, and at home and overseas on the PGA European Tour circuit, is the first to be specified by a British

Supplied and installed by the Hydroscape Group, the ESID display unit, located inside the Wisley pro shop, is designed to project visual information indicating the presence, range and direction of cloud to cloud and cloud to ground lightning discharges,

the moment they happen.

Coverage - through 360° - is impressive. Working on a 30 mile radius, the detection systems reaches out to St Albans to the north, Worthing, in the south, as far as Tunbridge Wells, in the east, and westwards, as far as Basingstoke, covering some 2,800 - square miles.

When the detection unit registers two cloud to ground lightning strikes within a ten - mile radius or one, within five miles of the club, it automatically triggers an (optional) alert controller which sets off warning sirens located at predetermined points around the golf course, giving players and greenkeeping time to vacate the area.

Bolt from the blue



Above: The Hydroscape ESID warning system

The unit's digital display information can be varied by programming it to indicate other warning thresholds. In addition to safeguarding people out on the course, warnings provided by the ESID detection system also enables greenkeeping staff to switch off irrigation controllers (or other, sensitive electrical equipment) to minimise the risk of damage

caused by lightning strikes.

What is lightning? Physically, lightning is an exchange of an electrical discharge between clouds or from cloud to the earth's surface. Such exchanges travel at the velocity of almost one third the speed of light, with current levels running as high as 35,000-40,000 amperes, generating one million volts or more.

In addition to electricity, lightning - more particularly a bolt - superheats the surrounding air to temperatures to an almost unbelievable 50,000 degrees centigrade. That's five times hotter than the sun's surface.

Lightning originates from thunderclouds - typically "charged" cumulonimbus clouds. The classic thunderbolt is essentially an electric dipole with a positively charged region above a negatively charged region.

Two theories exist as to how clouds are electrified: according to the con-

vective theory, cloud droplets trap ions in the atmosphere which are moved by convective currents within the cloud to produce charged regions.

Alternatively, the gravitational theory suggests that the heavier negative particles tend to be the lower portion of the thundercloud due to gravitational attraction. Whichever, a charged thundercloud is an unstable entity. Electric fields emitting from thunderclouds can become so strong that they cause an electrical breakdown of the atmosphere.

When this happens, a charge is exchanged via a lightning flash travelling in four possible routes: from cloud to cloud, cloud to ground, from cloud to air or within the cloud itself.

Cloud to ground lightning flashes have three distinctive parts, each occurring in microseconds: the stepped leader and the dart leader. The stepped leader involves the transfer of the charge from cloud to ground along the path of least resistance, in a succession of steps.

This transfer can sometimes follow different paths resulting in what we know as forked lightning. When the stepped leader gets close to the ground it induces corona discharge (dielectric breakdown in the air, which we call St Elmo's Fire) from tall objects - like isolated trees, pylons, church steeples - which literally 'reach out' to the leader.

Connection between the leader and the discharge 'closes the circuit' and establishes an unbroken path between cloud and the ground. This triggers a powerful, upward return stroke which ends in the originating cloud.

The lightning flash may end there or, if the return stroke imparts enough charge to the cloud, a dart leader may emit from the cloud and return in a direct path to the ground. A kind of double whammy!

This dart leader can be powerful enough to induce a second, return stroke. On average, a single lightning flash consists of the three or four return strokes but flashes of up to thirty return strokes have been mon-

There are also two kinds of cloud to ground lightning: a positive flash which transfer a positive charge, the negative, which as it suggests, exchanges a negative charge with the ground. Usually consisting of a single stroke, positive flashes are potentially more dangerous as continuous currents created can last up to ten times longer than a negative flash.

That said, you don't need to be an expert to recognise a thunder storm. Not only can you hear the rumble of thunder (thunder, incidentally, is the consequent shock wave from the electrical discharge) you can see lightning

lightning.

When this happens and you are caught out on the golf course bear in mind the following: avoid solitary trees, open areas, waterlogged areas and high ground. Avoid all metals objects including sprinklers, fences, machinery, flag poles, power lines, telephone lines and unprotected, small open sided buildings.

If you are in a group, spread out, allowing at least twenty feet distance between yourself and the next person

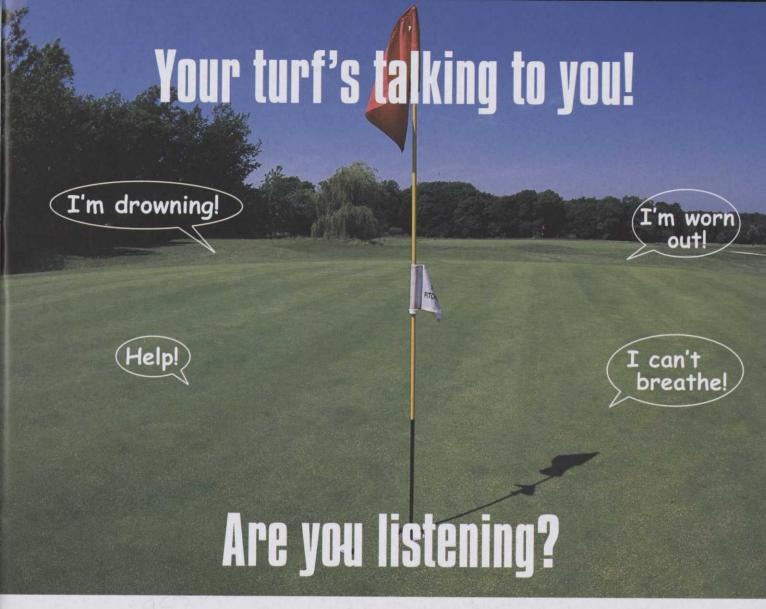
In contrast, seek shelter in a substantial building or fully enclosed metal vehicles - like a car, van or 4x4 - ensuring that all windows are closed. If these are not within walking distance, look for cluster of small shrubs or trees or find a ditch, trench or low ground as refuge.

Leave mowers, small pick-ups or golf buggies behind you. Take off any form of metal objects you may be wearing, watches, chains and the like. Clubs and umbrellas should also be discarded.

More sensibly, the next time you are out on the course and you hear or see thunder or lightning, forget about edging that green and raking bunkers or if you are playing, finishing that hole. Walk off, the risk is not worth taking, remember the fates can strike with lightning speed ...

In this day and age, golf clubs, playing members and greenkeeping staff have a duty to each other and themselves to take all necessary precautions to reduce the risk of injury or worse caused by lightning strikes. The R&A, PGA European Tour and now the Wisley club have taken the initiative by using ESID detection systems. Maybe your club should think along similar lines. Discuss.

Readers wishing to learn more about the storm detection systems mentioned in this article can consult Peter Roberts, the Hydroscape Group, telephone 01425 476261 or contact Cedric Johns on 01202 311345 or 01425 614790



Green grass is not always a sign of a healthy soil structure.

Constantly saturated ground or a build up of fine soil particles restricts drainage and air movement, breaking down the soil elements into even finer particles. The increasing clogging or total collapse of pore space causes anaerobic conditions, weak root systems and thinning turf.



Water doesn't drain, air can't enter and roots won't develop!

Help is at hand

Integrate is a patented blend of water soluble polymeric polyelectrolytes applied to the turf as a conventional high volume spray. As the polymers move down through the soil profile they unwind sending out a strong anionic charge that attracts the cationic charged clay and organic 'fines', drawing them together into larger, water stable particles.

The result is an 'opening up' of the soil structure to provide an improved flow of air and water into and through the soil and, with additional pore spaces to develop pathways for deeper root growth, a more healthy, vigorous, dense turf will be achieved.

FROM THIS	TO THIS!!!
Surface at June 200	TREATED
Competed Area / Layer Dod Man Bridge	

Initial applications will penetrate layers and solid soil structures and the turf manager should see the results in reduced soil compaction and lower bulk density.

Unlike wetting agents, Integrate directly repairs the cause of poor soil structure rather than just addressing the symptoms.

It's good to talk!



Distributed in UK by:





FREEFONE 0800 424 919

www.rigbytaylor.com



