

Amenity soils have a lower diversity and number of microbes due to lower organic matter, lower oxygen levels, a tendency to rapidly go anaerobic and the regular disturbance of turf maintenance, all of which promotes a lower number of a limited range of hardy bacterial species.

So what do soil microorganisms actually do? The primary activity is to break down organic matter. An interesting aside is that thatch build up occurs when the management style means that soil microbes cannot keep on top of this breaking down.

They have the ability to degrade, mineralise and immobilise fertilisers and pesticides. They enhance plant available nutrient levels through nutrient recycling and organic matter decomposition.

Other benefits include improved soil aggregation which has an influence on soil water movement and aeration. The improvements in plant health that these result in can also reduce susceptibility to disease.

Examples of Farmura Research

Table 1. Trial at Laverstoke Park 2014

Table 1

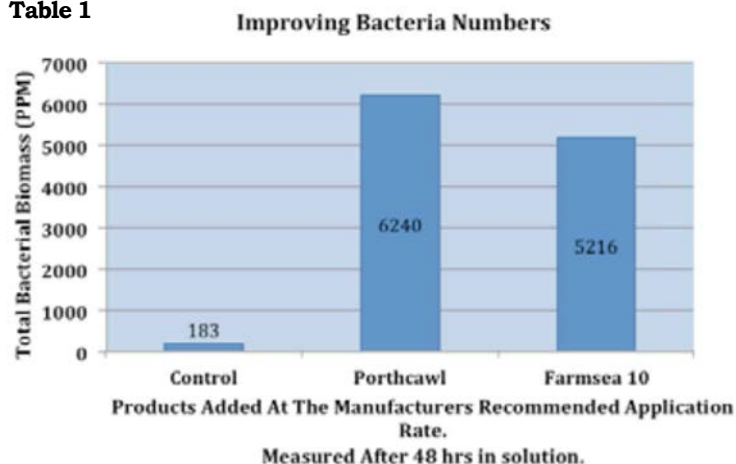


Table 2. Trials With Usda

Counts of fungi, bacteria and Actinomycetes in two soils, one from Dr. Kaufman USDA, Beltsville MD and the other from Robert Newman's plots at Madison WI following treatment with Farmura.

Table 2

Farmura Lab Rates (Litres/100m ²)	Fungi	Bacteria	Actino-mycetes	Fungi	Bacteria	Actino-mycetes	Thatch Layer Thickness (cm)
0	10	10	10	12	12	7	0.73
0.6	45	30	30	32	55	25	0.26
1.24	65	45	40	52	80	35	0.26

SAMPLE USDA → → → SAMPLE MADISON → → →

Day 27 Counts [X 1,000,000] → → → Day 27 Counts [X 1,000,000]

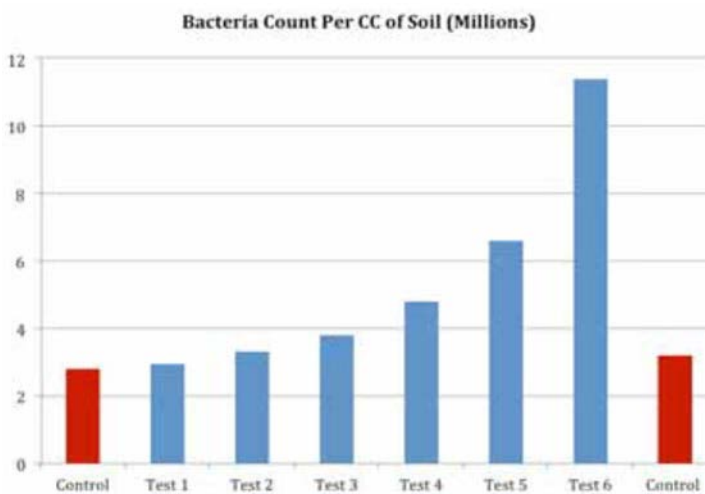
Table 3. Trial at Whitchurch Golf Course, South Wales

How then do we encourage soil microbes? Research from Cornell University in the USA advises the following, use manures – in the Farmura liquid organic range, such as Porthcawl and Farmsea which are formulated with manures we have an easy and convenient method of supply and application. Maintain soil moisture and oxygen levels.

This leads one to surfactants and Revolution from Aquatrols which will do just that in balancing air and water. Also a balanced PH, consistent fertility by spoon feeding, good aeration and the encouragement of root development which in turn releases organic compounds that stimulate activity – in short nothing other than good greenkeeping practice.

It would be remiss not to mention microbial products - the addi-

Table 3



courses a good deal of research has been carried out both in the UK and USA in different locations which has demonstrated their effectiveness in a number of areas as shown in the examples.

With the direction of travel moving evermore towards sustainability and a more balanced and natural approach the bigger picture needs to be considered and the soil and its life surely needs to be looked after just as much as the manicured turf we can see with our eyes.

Not so visible but certainly as important!

about the author



Farmura was established to develop the Farmura system of converting cow manure into organic fertiliser. Jonathan joined the company in 1976 as a rep and subsequently moved its offerings into the amenity market.



Farmura pioneered Liquid Iron into the European market with Ferrosol, introduced the first successful Spray Pattern Indicator and was one of the first to promote the benefits of true liquid fertilisers. The company pioneered the development of sustainable products to manage golf courses, and this year are celebrating their 40th birthday.

Turf REWARDS



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
Sierraform[®] GT

20 x  = 



Greenmaster[®] Pro-Lite[®]

25 x  = 



Sierrablen[®]
or **Sierrablen[®] Plus**

20 x  = 



ProTurf[®]

25 x  = 


Sportsmaster[®] CRF Mini

25 x  = 

Sportsmaster[®] WSF



25 x  = 

Greenmaster[®] Liquid

1 x  = 

Greenmaster[®] Liquid Effect

or **Vitalnova[®] Blade**

1 x  = 

syngenta.

Instrata[®]
Fungicide

3 x  = 

Heritage Maxx[®]
Fungicide

1 x  = 

Medallion[®] TL
Fungicide

1 x  = 

Headway[®]

1 x  = 

Banner Maxx[®]
Fungicide

1 x  = 

Rescue[®]
Herbicide

3 x  = 

Primo Maxx[®]

3 x  = 

Qualibra[®]
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4 x  = 

Qualibra[®]
Wetting agent

1 x  = 

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Instrata contains chlorothalonil, propiconazole, fludioxonil. Heritage Maxx contains azoxystrobin.
MedallionTL contains fludioxonil. Headway contains azoxystrobin, propiconazole.
Banner Maxx contains propiconazole. Rescue contains pinoxaden, cloquintocet-mexyl.
Primo Maxx contains trinexapac-ethyl.

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Around the green



Contact your Section correspondent with news, events or anything else for Around the green...



NORTH EAST Glen Baxter glen.baxter@rigbytaylor.com	NORTH WEST Eddie Ainsworth e.ainsworth@ymail.com	CLEVELAND Anthony McGeough amcgeough@aol.com	NORTHERN Andy Slingsby andy.slingsby98@googlemail.com	SHEFFIELD Neil Peters neilpeters66@gmail.com	NORTH WALES Pete Maybury petemayb66@aol.com
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Events Coming Up

North West

Summer Tournament / Hurlston Golf Club Tuesday 8 July
North West v North Wales section cricket match Thursday 24 July
Autumn Tournament / Ringway Golf club Thursday 18 September
AGM and Bert Cross Trophy / Wilmslow Golf Club Tuesday 11 November

North East

Future north east golf dates for your diaries: 28 May Close House, 25 June match v Cleveland, Whitley bay, 9 July Hexham, September, intersection match, Northumberland, October Alnmouth, December Bamburgh

North Wales

The North Wales v South Wales match takes place at Royal St. Davids, Harlech on May 14.

Northern

The Sheffield match up is an away day for us this year and they have sorted a cracking course for us! It's at Hickleton Golf Club, just off the A1 near Doncaster. It's been reduced to an eight man team instead of twelve. Date is 7 August at 1pm, anyone wishing to play get in touch asap. Presidents day this year is at West Bradford on 18 June at 1pm.

Sheffield

This year we will be doing Sheffield Section v Northern Section match on 7 August to be held at Hickleton Golf Club, so please can you let me know if you would like to take part. Our first competition for the year will be held at The Grange Golf Club Rotherham on May 15 tee off 1pm and it's Invitation Day so bring along your Chairman/Captain. Cost £15 members, Trade/Guest £20

News

North West

We would like to wish Tim Johnson, Senior Greenkeeper at Wilmslow Golf Club, who married girlfriend Lisa Richardson on the 12 April the very for your future together.

In March I was fortunate to be invited by Gordon Irvine along with Steve Oultram Course Manager of Wilmslow Golf Club, and Phil Stains Course Manager of Notts Golf Club, to work at Askernish Golf Club an original Old Tom Morris design, this was a great experience to witness Links golf at its rawest form.

We would like to remind all members that the BIGGA North West Section Facebook page is up and running. Many have liked this page and are posting already, we welcome all levels of greenkeepers to post on our page and you can use this opportunity to tell us what training or seminars you would like us put on, or work you have or have been under taking. May I request that your contact details with BIGGA House are up to date, this is important to make sure you are kept up to date with all training and seminars.

Cleveland

All quiet this month so news is a little thin on the ground! However I am sure we are all enjoying the change in the weather, allowing us to finish all those projects that were started at the end of 2013. I know here at Richmond Golf Club I have just finished my living wall project around the 8th tee the wildflower seed was sown this week.

James Tock has joined as a Cleveland section member. James has been at Richmond for a number of years but hopefully he will help boost the attendances at the golf days and evening lectures.

North Wales

Jamie Williams of Vale of Llangollen and his better half Rhian became parents for the second time with the birth of their son Jack Eric on 14 April.

Emyr Price of Royal St. Davids, Harlech celebrated his 40th anniversary in the job over Easter, congratulations and we hope you have many more happy years.

Northern

We are currently looking for new committee members as sadly Frank Stewart had to stand down. Frank will be greatly missed.

Sheffield

The Sheffield Section would like to thank Gordon Brammar for his services and commitment to the Sheffield Section over the years and wish him all the best. We would also like to say thanks to Bob Needham for taking over as president and Steve Pickering for being New Chairman.

Welcome New Members

Jamie Baglin, Assistant Greenkeeper, Sitwell Park Golf Club, Lee Sharpe, Assistant Greenkeeper, Bawtry Golf Club.

Scotland

Contact your Section correspondent with news, events or anything else for Around the green...



CENTRAL
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EAST
Scott Corrigan
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NORTH
Dale Robertson & Robert Patterson
daleturnberry@btinternet.com / grassman351@aol.com

WEST
Stuart Taylor
stuart.taylor@glasgowgolfclub.com

Events Coming Up

East

Next section meeting 14 May.

East Section Social night at the races on Friday 23 May, first race 6.10pm.

Willie Woods Tournament at Greenburn GC in August.

Autumn Meeting at Monktonhall in September.

AGM at Old Mussleburgh in October.

Annual Xmas Soiree in December (Venue to be confirmed).

Central

You may still be able to book a place on the Bernhards seminar/workshop on reel grinding which is being held at Elmwood GC on 14 May, enquiries to Gordon McKie.

A joint event by Everris, Jacobsen and Syngenta called Turf Science Live is taking place on Tuesday 10 June at Fairmont St Andrews although spaces are strictly limited. If anyone is interested then they must contact the organisers at syn.events@syngenta.com

News

East

The section would like to pass on good wishes to David Sked and Martin Stewart who have begun working at Muirfield GC, and good wishes also to Derek Hunter who is returning to Dalmahoy GC to take over as Course Manager, the section would also like to wish Andy Hastie all the best in his early retirement.

A big well done to Alex (Sandy) Stewart who is now in his 30th year of employment at Greenburn GC, a fair achievement these days.

The section would like to wish good luck to Craig Gilholm a former East Section member and his team at Royal Liverpool who will be hosting this years Open Championship. There are four Scots in the BIGGA Open Support Team this year and we wish them all a good experience during their time at the Open Championship.

Congratulations must be passed on to an old dog for his recent course record score (75) at Dundas Parks during their opening

day comp, a nice bit of history for Stuart, not sure how long his score will last though, I am sure that will depend on the pin positions in the future, be fair now Stuart.

Again a reminder that if your contact details have changed please feedback asap.

West

Let me apologise for not submitting for the last couple of months which is due to a variety of different things, needless to say I have been busy. Congratulations to Kevin Cross on his appointment as head man at Fereneze Golf Club, Kevin moves from Williamwood to his new position and we wish him well for the future.

I believe Ross McLeish has taken over at Cardross Golf Club having moved up from first assistant, sadly John Barr is no longer there. With regret I mention that Jim Caldwell has left his position at Sandyhills.

I have known Jim for a long time and have experienced many a happy encounter with him and I just hope he is able to move on from this and we can see him in the future at different events.

Best wishes to Sandy Bulloch who retired from Fereneze Golf Club, Sandy was secretary of the west section for about 10 years and a good supporter of the section. I think all those who know would like to wish him the best of luck in his retirement.

I would like to send my best wishes to Danny Samson who has been diagnosed with an eye condition which means he is going to be off work for a considerable time, I hope you get better soon.

I will report on the spring outing at the next issue, please feel free to contact me regarding any information you may have which would be of interest to other members.

Central

We had a healthy entry for our Spring outing at Kinghorn GC where the course was in fine condition. Thanks to everyone who helped make the day a success, from the Greenstaff, Caterers, Fife Golf Trust and especially the Trade who supported us in number. The results can be found on the Central Section website.

The first round of the 2014 Pairs competition should be complete and those results should also be on the website.

The Section also paid a visit to ETL in Stirling which attendees found very informative seeing around the lab. Most of those were asked to supply a soil sample and Sharon Bruce and her team carried out various tests on what was submitted.

Thanks to Sharon and the team and it may be possible for us to stage another visit in the future for those unable to attend.

We do have some other ideas in the pipeline so please like us on Facebook or check the website to get the latest information.

North

Some members moving on... Dylan Meinen has left Newmachar Golf Club and moved to Peterculter Golf Club. Steven Christie has left Deeside Golf Club and moved to Newmachar also Simon Hoy has left Royal Aberdeen Golf Club and moved to Deeside Golf Club so best wishes to them all in their new jobs.

Welcome New Members

Jamie Wright, Assistant Greenkeeper, Renaissance Club, Christopher Moffat, Greenkeeper, North Berwick Golf Club, Ben Inglis Greenkeeper, North Berwick Golf Club, Alasdair McDermid, Head Greenkeeper, Bothwell Castle Golf Club, Edward Gibson, Head Groundsman, Callum Gibson, Assistant Groundsman, Paul Sinclair, Assistant Groundsman, Stuart Clayton, Assistant Groundsman, William Gibson, Assistant Groundsman - all Gibson Green Maintenance Limited.

Midland

Contact your Section correspondent with news, events or anything else for Around the green...



BB&O - The Stick
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bbosecretary@gmail.com



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EAST OF ENGLAND
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EAST MIDLAND
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greg.skinner92@btinternet.com

Events Coming Up

BB&O

Volunteers required! Help is required for the Ladies European Masters (which is live on Sky) 3-6 July. Mainly morning set up again from 4 till 9 (we need quite a few bodies this year).

If you want to take advantage of this great opportunity please contact Andy Ewence, Course and Grounds Manager on 07725 277952 or andyewence@buckinghamshiregc.co.uk

News

BB&O

The 2013 Rigby Taylor Pairs competition final was played on Monday 8 April at Frilford Heath GC. The winners of the competition were Caversham Heath Golf Club, who won 3 and 2.

Both teams fought a hard battle not only against the challenges of the Blue course but, with the weather as strong winds and rain played their part. Jon Scoones from Caversham Heath lost his umbrella down the 3rd hole and into the stream that runs alongside, it was like an Ealing comedy watching them trying to retrieve it at one point I thought they were going to build a raft!

Carl Small from Ellsborough GC on the day was also suffering from a bout of man flu, which to most would not be a problem but Carl's false teeth were constantly coming out every time he went into a coughing fit, which for us was hilarious.

Both teams had a good day despite and I look forward to organising the 2014 competition.

Welcome New Members

Alex Millar, Course Manager, Alex Hall, Greenkeeper, Aaron Smith, Greenkeeper, Luke Mounteney, Greenkeeper, Paul Lear, Greenkeeper, Alex Smith, Greenkeeper, Konnor Saunders, Assistant Greenkeeper, Aaron Millar, Assistant Greenkeeper, Daniel Winter, Assistant Greenkeeper, Liam Nash, Assistant Greenkeeper, Charlie Beney, Assistant Greenkeeper, James Orr, Assistant Greenkeeper, Alan Baker, Assistant Greenkeeper – all Stoke Park Golf Club, Nick Pattison, Greenkeeper, The Mere Golf Resort & Spa, Mike Jacks, Greenkeeper, Newbold Comyn Golf Club, Jacob Standen, Greenkeeper, Saddleworth Golf Club, Jordan Tanner, Assistant Greenkeeper, Ansty Golf Club.



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South East

Contact your Section correspondent with news, events or anything else for Around the green...



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LONDON
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.com

Events Coming Up

East Anglia

25 June - Rookery Park GC
7 August - Eaton GC
2 October - Gog Magog GC (old course)
3 December - Thorpeness Hotel & Country Club - Turkey Trot & AGM
(need to double check this date and will confirm ASAP)

Essex

Wednesday May 21 is the next date for your diary. Stock Brook Manor Golf & Country Club is the venue, Stableford is the game and it's also the National Qualifier. £20 Members, £25 Guests. Entries to Antony Kirwan by May 15 please.

Contact Antony antz16@btinternet.com or antony.kirwan@playgolfcolchester.com

News

East Anglia

Golf day held at Sheringham Golf Club 17th April. Results:
0-10: 1 Darren Abbs 34(on count back) 2 Graham Hurren 34
11-18: 1 George Butters 37, 2 Nick Howes 33
19-28: 1 David Driver 31, 2 Andy Baker 28
Trade & guest: 1 Neal Milton 35, 2 Terry Mills 32
Longest drive: Darren Abbs
Nearest pin: Brian Lindores
For those who asked, the toilet seat went to me (Andy Baker) for getting the start time wrong earlier in the week!

Essex

This season has got off to a good start; our Spring Trophy meeting at The Essex Golf & Country Club went off well with 26 players in the stableford competition.

Competitions Secretary Antony Kirwan has worked out a new handicapping system for this year, the basis of which and the new rules are posted on the sections website.

The results are:

1 Liam Springett 35pts, 2 Ross Sturridge 33 c/b, 3 Dougie Fernie 33

Best trade: Steve Bush 35
Best guest: Steve Crosdale 37
N/pin 5th: Liam Springett
N/pin 11th: Callum Smith

To Course Manager Martin Forrester and his team, for the setup of the course, well done guys. After so much bad weather, you would not have known that only a couple of weeks prior to our day, we had all been under water. Over 16 inches were recorded since last November in the Essex region. Our thanks go also to the staff and chef at The Essex for looking after us so well. Plus to our sponsors who gave their support on the day.

Thanks to sponsors

East Anglia

Main sponsor and halfway house Ben Burgess. Other sponsors: Atkins, Rigby Taylor, Symbio, Ernest Doe & son, Bertram Mowers. Everris

Essex

A warm welcome to the sponsors who have joined us so far this season: Avoncrop Amenity Products, Baileys of Norfolk, Banks Amenity Products, CMW Equipment Holdings Ltd, Collier Turf Care, DayLinks, Ernest Doe & Sons, Everris, GM Amenity, Golf Mats UK, Headland Amenity Products, Paynes Turf, Premier Plan, Prime Irrigation, P Tuckwell Ltd, Rigby Taylor, Swan Golf Designs, Tacit, Tey Farm Systems, Toro (UK).

Their support not only helps with our golf days, but also helps improve our education program, of which I hope to have more information next month.

My contact details: 07894 831609 or essexbigga@talktalk.net plus there is more information on our section website www.essexbigga.co.uk

Welcome New Members

Ryan Covey, Greenkeeper, Hankley Common Golf Club, Dean Viney, Greenkeeper, Burhill Golf & Leisure Ltd, Jake Austin, Assistant Greenkeeper, Hankley Common Golf Club.

Welcome New Members (International)

Paul Walsh, International Greenkeeper, Villa Tatiana SA Switzerland.

A new look

Based on feedback from the recent GI survey, we've refreshed and improved this section of the magazine.

Please send your news and photos in to your section correspondent or Steve Castle (steve.castle@bigga.co.uk) by the 10th of each month

South West & South Wales

Contact your Section correspondent with news, events or anything else for Around the green...



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SOUTH WALES
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Events Coming Up

South Wales

Please contact Darryl Jones our match captain to participate in both up and coming matches v north at Royal St Davids on 14 May and the region section match at Chippenham GC Thursday 29 May (07867 317951).

Royal Porthcawl will host an irrigation road show on Tuesday 10 June at 9am and a course walk at 2.30pm regarding the course setup for the up and coming Seniors Open, plenty of opportunity to ask questions to Mr Kinley.

South Coast

We have a match against the Wessex secretaries at Broadstone Golf Club on 4 June. If you would like to put your name forward for the ten man team, please contact Tony Gadd at greenkeeperbosgc@gmail.com.

The summer tournament will be held at Knighton Heath Golf Club on 3 July, more details next month.

South West

By now everyone should have their fixture cards for the year, if not please drop me an email and I will ensure you receive one. Here is a quick rundown of this year's fixtures.

29 May Inter-Section Match at Chippenham GC. Team event including South West, Secretaries, South Wales & South Coast. We would love to have a few new faces in the team for this super competitive event, please get in touch with Adam Matthews if you'd like to represent our section.

19 June Summer Tournament at Farrington GC.
Qualifier for BIGGA National Championship

9 October AGM at Saltford GC.

17 December Christmas Tournament at Cirencester GC

We are looking forward to seeing everyone at these events, please mark them in your diary to ensure you are free.

20 August sees the return of Club Management Trophy kindly sponsored by Everris, get your team together a great day at Chipping Sodbury GC

The South West Section knock-out competition is underway, thanks to Joe Curtis for organising this league, keep an eye out for the results and to see who are the sharpest two-ball in the section!

News

South Wales

The Section would like to wish Scot Williams all the best in his role as Head Greenkeeper at Tenby GC.

Andrew Burgess of Trefloyne GC is taking part in the Iron Man Wales 2014. Such a difficult event with a challenging bike ride and run course, also Tenby north beach being one of the most iconic settings for an iron man swim anywhere in the world. He's trying to achieve his goal of £1000 for charity. If you would like to make a donation the link is: <http://uk.virginmoneygiving.com/AndrewBurgessIMW2014>

We had a brilliant turn out for our spring seminar, our thanks to all the speakers, very interesting and thought provoking topics and excellent demonstrations from @turf and Campey Turfcare.

A fantastic turn out for our Spring Cup At Pennard Golf Club course in great shape, visibility very poor with the fog, made golf tricky but a great day had by all. Results:

1 A Roach, 2 Tracey Maddison, 3 Big D & nearest the pin on the 15th. Best Trade: H Morgan. Thanks to Tracey Harvey for the sweets on the course nice touch, and thanks to the club for hosting the event.

South Coast

We have had a reorganisation on the committee. For the long service to the south coast section Tony Gadd has been offered the role as president and I am happy to report that Tony has taken the position.

Chairman: Robert Hogarth; Vice chairman: Jaime Acton Secretary/finance: Alex McCombie Education: Jaime Acton/Kevan Glass; Golf events: Alan Magee/Joe Cooper; Communication: John Worrall; Around the Green: Alan Magee; Meet and greet at events: Chris Bitten; Committee member: Phil Wentworth

If you are not receiving emails about events as they come up in our section can you please email Alex McCombie at southcoastsecretary@gmail.com so he can update the database. I must apologise to Tracey Harvey as I called her by another name at the spring tournament!

The spring tournament was held at Highcliffe Castle Golf Club on 15 April. We would like to thank Highcliffe Castle for allowing us to hold the Chalky White Memorial Cup at the club. Also thanks goes to Mike and all his staff for all their hard work presenting the golf course.

Results: Overall winner of the Chalky White Cup: Kevan Glass; Division 1: 1 A Magee 31pts; 2, R White 30, 3 L Elgie 29; Division 2: 1 K Glass 39, 2 M Cartwright 36, 3 B Blair 35; Nearest the pin: B Blair; Longest drive: R Hyder. Winners of each division qualify for entry to the national tournament.

South West

As always there are opportunities for training. Paul Worster is at the ready so whatever your training needs may be drop Paul a line.

If anyone on your team is not receiving Section emails please ask them to contact me to supply their addresses (j.goodchild@bowood.org).

Thanks to sponsors

South Coast

Thanks go to Avoncrop for sponsoring the day at Highcliffe Castle.

South West

Many thanks to our South West Section 2014 Patrons: Sportsmark, Greensman, Irritech, Headland Amenity, Countrywide, Farmura, Ecosolve and T H White for their invaluable support. Also, welcome to Indigrow who have offered their much valued support as a section patron, thanks Nick and Richard.

Welcome New Members

Steven Stopforth, Greenkeeper, Enmore Park GC

Be BIGGA's number one



How you can enter the BIGGA National Championship, kindly sponsored by Charterhouse and Kubota, at Liphook Golf Club, Hampshire on 6-7 October. You can win £500 worth of vouchers

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BIGGA Section.....

Golf Club

Payment method (please tick)

- I enclose my cheque made payable to 'BIGGA Ltd' value **£90**
- Please debit my Mastercard / Switch / Visa / Delta card with the fee of **£90**

Card number

.....

Start Date Expiry Date

Last 3 security digits

Issue No. (Switch/Delta only)

Signature.....

Date.....

Or E-mail your details to:
rachael@bigga.co.uk
 Ensure you receive confirmation of entry by return email.

Deadline for entry is 5th September 2014.

Completed entry forms should be sent to:
BIGGA National Championship, BIGGA House, Aldwark, Alne, York YO61 1UF



The main tournament for the Challenge Trophy will be played over 36 holes, medal play, with the best overall gross score producing the BIGGA National Champion, who must be a greenkeeper member. The greenkeeper player with the lowest nett score will be presented with the BIGGA Challenge Cup.

There will be prizes for the first five over 36 holes in the gross category. The top three in the nett competition will also receive prizes. After each day of 18 holes there will be prizes for winners of handicap divisions. The BIGGA Regional Team Cup and prize will be calculated from the 8 best nett scores over the first day of play. There will also be various nearest the pin and longest drive competitions, featuring prizes.

BEAT BUNKER PROBLEMS IN NO TIME

The new Mantis BunkerMaster has received high praise from greenkeepers using it to resolve perennial bunker problems.

Ten years after the launch of the first Mantis 2 stroke BunkerMaster, the new more powerful 4 stroke model will prove to be a very cost effective solution to any course looking to raise the standard of its bunker preparation.

While bunkers cover only one to two percent of the total area of the golf course they can take up to as much as 25% of the available resources to maintain.

You want to get bunkers back into shape as fast as possible after bad weather, heavy play and during general bunker maintenance, preparing them to the highest standards.

The BunkerMaster's 35cc engine has the torque to spin the spring tines at 200 rpm, yet it is lightweight and offers a low cost solution to fast redistribution of the sand. It lifts and aerates the top 30mm of sand without digging in and it's designed to work away from the operator for maximum control.

All of which means you have a fast and efficient answer to loosening and dressing the sand, ready for final top dressing using a conventional rake.

The light weight of the BunkerMaster also means you can work in tight edges and along banks.

Overall, what is most impressive about the BunkerMaster is the sheer speed of bunker preparation you can achieve, especially after heavy rain.



Removing moss and thatch from awkward banks is another benefit, with sixty spring picks letting you dethatch a 15" (38cm) swathe at a single pass and the minimum of effort.

Lightweight they may be but these little machines have proved themselves to be tough and built to last. The long-life precision worm gear and drive shaft transmission are all enclosed in a robust aluminium casing while the Subaru engine also has its own rugged housing.

A unique centrifugal clutch gives the operator complete control and there is sealed electronic ignition plus a convenient engine cut-off switch on the handle.

At the end of the day, the light weight and compact shape make the BunkerMaster easy to pop into the back of a UTV and all components, including the engine and attachments come with a 1 year professional guarantee against defects in materials and workmanship.

GALLEON IS A TOP REGENERATING PERENNIAL RYEGRASS



A spreading perennial ryegrass exclusive to Germinal Seeds in the UK has been hailed for its divot recovery qualities in research trials.

The regenerative growth qualities of Galleon were demonstrated when it bettered two other competitor brands in a trial at Oregon State University.

Galleon was developed as a hardwearing variety of perennial ryegrass with exceptional recovery due to its spreading growth habit. This fine leaved variety also exhibits high resistance to insects and nematode attack due to high endophyte levels.

The highly rated variety, was evaluated in the trial against two recent ryegrass blends marketed heavily for their spreading characteristics – RPR and Natural Knit. It was found to repair the divots faster and maintained active growth late into the autumn.

Richard Brown, Amenity Sales Manager of Germinal Seeds (GB), said: "We have great faith in Galleon's qualities and are delighted but not surprised at how well it has done in this research study."