

Sunday 16th January

10.30 - 18.00 ... Basic Golf Mechanics Workshop.....	Member - £95 + VAT, Non Member - £190 + VAT
10.30 - 18.00 ... Golf Course Design	Member - £190 + VAT, Non Member - £275 + VAT
10.30 - 18.00 ... How to be an Outstanding Manager - Part 1: Setting and Managing Expectations	Member - £95 + VAT, Non Member - £190 + VAT
10.30 - 18.00 ... Irrigation System Design.....	Member - £95 + VAT, Non Member - £190 + VAT
10.30 - 18.00 ... Moving into Management	SOLD OUT
10.30 - 18.00 ... Moving with the Times	Member - £95 + VAT, Non Member - £190 + VAT

Monday 17th January

09.00 - 17.00 ... Basic Budgeting and Golf Club Finance	Member - £95 + VAT, Non Member - £190 + VAT
09.00 - 17.00 ... Diagnostic and Problem Solving	Member - £95 + VAT, Non Member - £190 + VAT
09.00 - 17.00 ... Golf Course Design	Day Two
09.00 - 17.00 ... How to be an Outstanding Manager - Part 2: How to Motivate and Engage Your People	Member - £95 + VAT, Non Member - £190 + VAT
09.00 - 17.00 ... Moving into Management	Day Two
09.00 - 17.00 ... Pesticides Update for NPTC Certificate Holders	SOLD OUT
09.00 - 17.00 ... So You Want to be a Golf Course Manager - Five Fundamentals for Golf Course Management Success.....	Member - £95 + VAT, Non Member - £190 + VAT
09.00 - 17.00 ... Turf Managers' Conference.....	Member - £95 + VAT, Non Member - £190 + VAT

Tuesday 18th January

09.30 - 12.30 ... Basic Electrical System Maintenance	Member - £45 + VAT, Non Member - £80 + VAT
09.45 - 10.15 ... Efficient Nutrient Technology	Free
09.30 - 16.45 ... Golf Club Marketing.....	Member - £95 + VAT, Non Member - £190 + VAT
09.30 - 10.00 ... Update on UK Proposals for Implementing the EU Sustainable Use Directive.....	Free
10.30 - 12.30 ... Producing a Golf Course Policy Document	Member - £30 + VAT, Non Member - £70 + VAT
10.20 - 11.20 ... STRI - Part of the Winning Team at the World Cup	Free
10.30 - 11.00 ... Wills and Estate Planning	Free
11.15 - 11.45 ... Improving Turf Quality	Free
11.35 - 12.35 ... Update from The R&A.....	Free
12.00 - 12.30 ... The Future of Turf Management.....	Free
13.15 - 13.45 ... Integrated Lake and Pond Management - Innovative Aquatic Solutions.....	Free
13.30 - 16.30 ... Introduction to Hydraulics.....	Member - £45 + VAT, Non Member - £80 + VAT
13.30 - 16.45 ... Master Greenkeeper Certificate Workshop	Free - Pre Book
13.20 - 14.20 ... Ryder Cup Cymru.....	Free
13.00 - 13.30 ... Volunteers' Workshop	Free - Pre Book
14.45 - 15.15 ... Fulvic Acid the Biostimulant that Extends Early and Late Season Growth	Free
14.35 - 15.35 ... Preparing the Old Course for the 2010 Open Championship	Free
14.00 - 14.30 ... Why Electricity Generation Makes Economic Sense For Your Business.....	Free
15.30 - 16.00 ... Fludioxonil Providing Innovative Disease Management and Application.....	Free
16.00 - 17.00 ... Annual Awards Ceremony.....	Free
16.15 - 16.45 ... Bunker Erosion: A Sustainable Solution to an Age Old Golfing Problem.....	Free

Wednesday 19th January

09.30 - 13.00 ... Golf Club Management - Getting it Right in 2011. Hosted by the GCMA.....	£30 + VAT (or 2 for £50 + VAT)
09.30 - 10.00 ... Linking Fuel Savings to Reel Maintenance	Free
09.30 - 12.30 ... Protected Species and Habitat Considerations for Bees and Butterflies.....	Member - £45 + VAT, Non Member - £80 + VAT
09.30 - 12.30 ... The Rules of Golf and Course Set-up for PGA Events.....	Member - £45 + VAT, Non Member - £80 + VAT
10.25 - 10.55 ... The Three Steps to Transition	Free
10.15 - 11.15 ... The West Course at Wentworth.....	Free
11.55 - 12.25 ... Aeration on Golf Courses	Free
11.10 - 11.40 ... Coated Seed Delivering Species Transition on the Golf Course!.....	Free
11.30 - 12.30 ... Course Manager to Club Manager - The Challenge.....	Free
12.55 - 13.25 ... Green Up Your Greens	Free
13.30 - 16.30 ... Basic Greenkeeping Techniques.....	Member - £45 + VAT, Non Member - £80 + VAT
13.30 - 16.30 ... Carbon Auditing for Business Advantage	Member - £45 + VAT, Non Member - £80 + VAT
13.40 - 14.10 ... Environmental Management of your Golf Course with the Latest Technology in Chemistry	Free
13.30 - 16.30 ... Good Soil Chemistry and Biology the Answer to Practical Sustainability.....	Member - £45 + VAT, Non Member - £80 + VAT
13.15 - 14.15 ... Integrated Management of Dollar Spot	Free
14.30 - 15.30 ... Demystification of Synthetic Sports Surfaces	Free
14.00 - 16.00 ... Development Seminar for Assistant Greenkeepers.....	Free - Pre Book
15.10 - 15.40 ... Turf in the Sustainability Era.....	Free
15.45 - 16.15 ... Working on Your Own at a 9 Hole Course	Free

Thursday 20th January

09.45 - 10.15 ... Sustainable Golf Course Maintenance; aligning golf course performance with the requirements of club members. Free	Free
09.30 - 10.00 ... Woodfuel Energy that Grows on Trees	Free
10.15 - 10.45 ... The New EU Water Framework Directive and its Impact on Golf Courses	Free
11.15 - 11.45 ... Energy Efficient Irrigation	Free
11.45 - 12.15 ... Simplified Access Control for your Golf Club	Free
11.00 - 11.30 ... Using Foliar Fertilisers to Optimise Putting Green Programming	Free

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 Abbott (MJ) Ltd A33
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 Aitkens Sportsturf Ltd A36
 Amazone Ltd M3
 Amenity Technology Ltd C26
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 ASSA ABLOY UK M20a
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B
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C
 Charterhouse Turf Machinery Ltd B37
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 Complete Weed Control Ltd C38
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 Crocodile Golf Products M17b

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 Delta-T Devices A24
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F
 Farmura Ltd A17
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Montpellier

image courtesy of HIC



Cattleman's Association



Blues Bar

Where to eat, sleep and socialise in Harrogate...

Harrogate Week is unlike any other event. It is your chance to meet and interact with decision makers 24 hours a day. After the show closes there are endless opportunities to network in the Harrogate bars and restaurants with fellow turf professionals.

As you can imagine, Harrogate Week proves a busy time for the pleasant spa town.

With much to see and do, Harrogate offers fine cuisine and a lively nightlife along with a glamorous heritage, famous for its Turkish baths.

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When you're feeling peckish or want to mix business with pleasure...

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B.E.D.	Tel: 01423 568600	Modern English
Bengal Spice	Tel: 01423 502610	Indian
Betty's.....	Tel: 01423 502746	Traditional English
Caramba Tapas & Bar	Tel: 01423 505300	Tapas
Cattleman's Association	Tel: 01423 561456	Tex Mex
Chez La Vie	Tel: 01423 560666	Traditional English
Damn Yankee	Tel: 01423 561424	Tex Mex
Drum and Monkey	Tel: 01423 502650	Seafood
Harrogate Brasserie.....	Tel: 01423 505041	English
Hedley's Wine Bar.....	Tel: 01423 562468	English
Horoscope.....	Tel: 01423 508144	Chinese
Joe Rigatoni	Tel: 01423 500071	Italian
La Tasca	Tel: 01423 566333	Tapas
Thai Elephant.....	Tel: 01423 530099	Thai
Salsa Posada	Tel: 01423 565151	Mexican
William and Victoria	Tel: 01423 506883	English

WHERE TO STAY...

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Old Swan Hotel, Swan Road	Tel: 01423 500055
Studley Hotel, Swan Road	Tel: 01423 560425
Grants Hotel, Swan Road	Tel: 01423 560666
Majestic Hotel, Ripon Road.....	Tel: 0870 1688833
Crown Hotel, Crown Place	Tel: 01423 567755
Cairn Hotel, Ripon Road.....	Tel: 01423 504005
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Alexa House, Ripon Road	Tel: 01423 501988
Yorkshire Hotel, West Park	Tel: 01423 565071
Travelodge, The Ginnell.....	Tel: 0871 9846238
Shannon Court, Dragon Avenue	Tel: 01423 509858
Grafton, Franklin Mount	Tel: 01423 508491
Camberley, Kings Road	Tel: 01423 561618

For more information on accommodation and bookings visit:
www.reservation-highway.co.uk access code "bigga"
 or Tel: 01423 525577.

THINGS TO DO AND WHERE TO PARTY...

Carringtons, Station Parade	Tel: 01423 525551
The Moko Lounge, Kings Road	Tel: 01423 525862
The Viper Rooms, Parliament Street.....	Tel: 01423 520567
Odeon Cinema, East Parade.....	Tel: 0871 2244007
Harrogate Theatre, Oxford Street	Tel: 01423 502116
UK Super Bowl, Tower Street	Tel: 01423 529191

How to get to Harrogate

Rail

Harrogate is served by the main line stations in Leeds and York. Trains run approximately every 30 minutes at peak time. Harrogate International Centre is a 10 minute walk from the station. Taxis are available outside the station and will cost around £3.50.

For further information on rail services to Harrogate contact National Rail Enquiries on 08457 48 49 50 or visit www.nationalrail.co.uk.

Air

Leeds Bradford International Airport www.lbia.co.uk

Leeds/Bradford airport is approximately 12 miles from Harrogate. Taxis are available at the airport at a cost of approximately £18. You may wish to visit the following websites for flight information.

www.flybe.com
www.jet2.com
www.airsouthwest.com

The "Bus 2 Jet" 767 service links Leeds Bradford International Airport with Harrogate town centre. The service runs every 90 minutes between 0615 and 2245, with an average journey time of around half an hour. For further information on this service please contact Harrogate & District Travel Ltd on +44 1423 566061

Or visit www.bus2jet.com

Manchester International Airport www.manchesterairport.co.uk

Manchester International Airport is situated halfway between London and Edinburgh, 75 miles from Harrogate. Public Transport links are available 24 hours a day offering services to Harrogate via Leeds or York.

Coach

National Express www.nationalexpress.com

National Express is the UK's largest scheduled coach network, offering several services a day to Harrogate from all over the UK.

Car

www.theaa.com



Directions

From M1: Leave at Leeds and take the A61 to Harrogate, approximately 15 miles. Harrogate International Centre is signposted.

From M62: Leave at Leeds and take the A61 to Harrogate, approximately 15 miles. Harrogate International Centre is signposted.

From the South A1(M): Leave the A1(M) at Wetherby and take the A661 to Harrogate, approximately 10 miles. Harrogate International Centre is signposted.

From the North A1(M): Leave A1(M) at junction 47 and take the A59 to Harrogate, approximately 8 miles. Harrogate International Centre is signposted.

From the East: Take the A59 to Harrogate. Harrogate International Centre is signposted.

From the West

Take the A59 to Harrogate. Harrogate International Centre is signposted.

Harrogate Town Centre Car Parks

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All town centre car parks are open 24 hours.

Charges apply all days at all times (including Public Holidays)

Free parking for Blue Badge holders and motorcycles

Pay and Display parking is in operation

in most town centre streets in Harrogate.

Charges and restrictions apply on Sundays and Bank Holidays in all parking areas unless otherwise stated.

Sea

Direct Ferries www.directferries.co.uk

Direct Ferries are part of Direct Ferries Ltd, an online travel provider based in the UK offering ferry crossings to the UK from the continent. Registered agents of the ferry operators are listed on the website, they sail to 14 Countries and 54 ferry ports on over 60 routes.

North Sea Ferries, from Rotterdam/Zeebrugge to Hull, 59 miles from Harrogate.

Park & Ride

BTME & ClubHouse provides a FREE 'Park and Ride' service from the Great Yorkshire Showground (from the A1M: exit A59 towards Harrogate, follow the ring road to the Great Yorkshire Showground (A661).) to Harrogate International Centre on all three days of the conference and exhibition. If you are planning to drive to Harrogate, this service will help you avoid any traffic problems in town and save you looking for a parking space.

The shuttle service will run at the times:

- Tuesday 20 January 08.30 to 17.30
- Wednesday 21 January 08.30 to 17.30
- Thursday 22 January 08.30 to 16.30

Harrogate week

HARROGATE WEEK 2011 PRESENTS...



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TUESDAY 18TH JANUARY 2011 - 7 PM TO 10.30 PM

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Volunteers wanted



to work at The Open

The Open Championship, Royal St George's Golf Club, July 14-17, 2011

This is your opportunity to work at The Open Championship and assist the Royal St George's team with the preparation of the course and be a part of the on-course team which accompanies each match ensuring bunkers are raked in a correct and professional manner.

It will be your responsibility to make your way to the team's base for the week – University of Kent, in Canterbury - but after

that transport to and from the golf course, accommodation and meals will be provided for the duration of the Championship.

You will be expected to report for duty by 5pm on Wednesday, July 13, and be available until the close of play on Sunday – a meal and bed and breakfast will be supplied for the Sunday evening and Monday morning if required.

This opportunity is open to full BIGGA members only. Younger members, relatively

new to the Association, will also be actively considered.

To apply please complete this application form and send to:

Scott MacCallum, BIGGA HOUSE, Aldwark, Alne, York, YO61 1UF.

For further information contact Scott on: 01347 833800 or email: scott@bigga.co.uk

Closing Date for applications for The Open Support Team is February 1, 2011, and you will be notified later in the month.

Name			
.....		Yes	No
Golf Club			
.....		I have been a BIGGA member for more than three years.... <input type="checkbox"/> <input type="checkbox"/>	
Position			
.....Age.....		I serve, or have served in the last three years, on a Section/Region Committee..... <input type="checkbox"/> <input type="checkbox"/>	
BIGGA Mem Number			
.....		I am enrolled on BIGGA's CPD Scheme..... <input type="checkbox"/> <input type="checkbox"/>	
Email Address			
.....		I have attended three of the last five Harrogate Weeks..... <input type="checkbox"/> <input type="checkbox"/>	
Mobile Number			
.....		I am/have been a member of the PGA Championship Support Team..... <input type="checkbox"/> <input type="checkbox"/>	
I have applied for/appeared on the team at:		Applied Successful	
St Andrews, 2010 <input type="checkbox"/> <input type="checkbox"/>	I am willing to be a mini bus driver (You must have held a full driving license for three years and be over 25 years of age.)..... <input type="checkbox"/> <input type="checkbox"/>	
Turnberry, 2009 <input type="checkbox"/> <input type="checkbox"/>		
Royal Birkdale 2008 <input type="checkbox"/> <input type="checkbox"/>	I am an overseas Member..... <input type="checkbox"/> <input type="checkbox"/>	
Carnoustie 2007 <input type="checkbox"/> <input type="checkbox"/>		
Hoylake, 2006 <input type="checkbox"/> <input type="checkbox"/>		

Note: A place on the team is open to all full BIGGA members but priority will be given to the more active members. Subject to the availability of sufficient numbers of experienced team members no regular team member will be selected for more than three teams in succession. A limited number of places will be made available to younger members and overseas members. Please ensure that you have spoken to your golf club or Course Manager prior to applying and have arranged the time off.

Should you be chosen you must send a passport picture of yourself to BIGGA HQ as the R&A now have photographic ID for all Open Championship workers.

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Preventing Winter Green Damage

Winter damage, aside from causing many a sleepless night, can be costly and time-consuming to repair. In preparation for a potentially harsh winter ahead, Jim Cook caught up with a man who has had a great deal of experience in dealing with such damage, but in a slightly more extreme environment

Hauger Golf Club sits 13 miles north of Oslo, in Norway. For up to five months in the year it is common for the course to be buried under three to four feet of snow, with temperatures plummeting to a numbing -35 degrees centigrade.

Course Manager, Eoin Moroney, took the job of making one of the busiest courses in Norway presentable by spring each year in 2003. Since then, some of the harshest winters ever recorded in the country have allowed him to experiment with various methods to reduce damage come the melting of the snow and ice.

Eoin spoke of the problems caused by the weather in Norway and of how tried and tested techniques used by him to combat winter damage could be applied to golf courses which endure less extreme conditions, but might suffer the same symptoms.

He began by explaining how no two winters resulted in the same kind of damage to greens, although two types were typical every year.

“One is disease where you have

an ideal environment under the snow to activate fungal habitat, where *Typhula incarnata* (grey snow mould) and *Microdochium* patch (pink snow mould) are the most common. This year was a typical example where we had severe outbreaks of grey snow mould when we had up to one metre snow cover on greens and a very mild climate under the snow. The other is ‘winterkill’ where ice sheets create a burning effect on the greens, killing off much of the grass plants in the low lying areas.”

Winterkill can also be caused by crown hydration, where ice crystal form in the crown of the plant rupturing cells; desiccation, where a plant dies after drying whilst dormant or semi-dormant; and low temperature kill, when ice crystals form at temperatures below zero degrees centigrade. The occurrence of this winterkill is unpredictable and as well as varying between different courses, can also vary across the same course.

“The surprising thing about this climate is that courses in our particular region always seem to

encounter different problems every year which maybe lie only 15 km from one another. The other amazing thing is different areas of a particular course can differ greatly from other areas. Greens at higher or lower altitudes can differ greatly. Greens and fairways with low spots or holding points will suffer more winterkill than greens with good run-off highlighting the importance of good green design.”

In preparation for winter, the amount of nitrogen and iron applied to greens was crucial.

“We always try to harden up the plant going into the winter by applying iron late on in the autumn along with applications of preventative fungicide. We have found reducing the nitrogen in the plant going into the winter is also a key to combat any fungal activity.”

Over the years, Eoin has employed a number of techniques with a view to prevent or minimise damage caused during the snow-covered months. Several have emerged as being consistently successful.

“We try to keep the surface of the green dry going into the first



Course Manager, Eoin Moroney

Eoin has employed a number of techniques with a view to prevent or minimise damage





frost period by dewing-off often. We have also invested heavily in snow removal equipment to enable us quickly to get snow removed when necessary. We often will have two 120hp tractors on the greens and tees in the winter, which is unheard of in the UK. We have also tried some trials with covering the greens going into the winter and I do have a lot of faith in this. It takes a lot of man-power though, which we do not have at this time of the season. We have also tried to install temporary extra drainage in low areas of the greens to help get rid of melt water underneath the ice at a faster rate. Spreading granular charcoal on the surface after snow removal is very useful to breakdown ice which can be anything from 1cm to 7cm thick."

Green design was vital, so as not to allow ice to form in lower areas, as was preparation.

"It is definitely about good preparation going into the winter, but it is always about timing it right to get rid of the snow. I feel the most critical aspect is at the construction stage, where the greenkeeper should be highly involved with the architects

to design greens and surrounds to cope with the problematic areas such as good drainage and run-off. If a greenkeeper hasn't got a good surface run-off, he or she is always going to be faced with an uphill battle for the future."

Seasons at Hauger are just five months long and because of long daylight hours meaning early morning and late evening play on the course, an intense working environment exists. Eoin explained how he coped with this.

"We have 24 hours of daylight in June and July and it is always a tricky task to get out in front of golfers no matter what the working hours will be. Having good planning and having a high quality of staff is definitely a bonus. Having sufficient amount of staff is always going to aid in helping get all daily tasks done. We are quite fortunate to have from 12 to 13 greenkeepers on a daily basis supplemented with a well maintained fleet of machinery. Saying that it never fails to amaze how fast grass grows and how keen the golfers are to get out in the morning and how late they want to play into the night."

"We have 24 hours of daylight in June and July and it is always a tricky task to get out in front of golfers no matter what the working hours will be"

Eoin Moroney,

Techniques for dealing with winter damage in extreme conditions differ wildly from course to course and budgets are often the deciding factor for Course Managers.

"We are running off a medium end budget and we are four full time staff including a mechanic and up to 13 in the high season. We can manage to remove snow from greens and tees where as a lower end budget course might not be able to do this and will basically leave the snow to take care of itself. Saying this, there is no right or wrong way and many Course Managers work with their own feelings and local climate. High end budget courses would have the opportunity to work with winter covers and plough snow through-

ABOVE: The course covered in ice

BELOW: Aeration work on an iced green

