



CAROLINAS

GOLF COURSE SUPERINTENDENTS ASSOCIATION

2015 Conference and Trade Show

It may be the beach, but it's all about business



November 16-18, 2015
Myrtle Beach, South Carolina

CONFERENCE AND SHOW PROGRAM



No Matter How You Cut It...

It has to Grow First.

The industry is talking about carbon based fertilizer, something that we know quite well since it's all we've been doing since 1988. The reason carbon has taken a front seat is because it's how soil works and what makes plants grow! When you feed the soil you feed the plant in a way that is truly sustainable.

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2015 Conference and Trade Show

November 16-18, 2015

Myrtle Beach Convention Center • Myrtle Beach, South Carolina



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A Message from our President



Dear Members,

Every November we gather in Myrtle Beach for our annual Conference and Trade Show. This is the largest regional trade show for golf course superintendents in the country and continues to defy logic in the eyes of some skeptics. Not in mine. When I consider the value this event brings to everyone involved, its continuing success makes perfect sense. What value am I talking about?

- Its value to our association in terms of revenues. Revenues from Conference and Show allow us to keep membership dues at a very reasonable level while providing the vast array of services we are all accustomed to. It also allows us the flexibility to continually try new things as we work to get better still.
- Its value to our members as an opportunity to learn through continuing education, be exposed to new products and services during the tradeshow and to mingle, building relationships with our peers.
- Its value to vendors as a conduit to qualified buyers and the future superintendents and leaders of our industry.
- Its value to the game of golf as most everyone will leave better than when they came and return this knowledge and passion to their facility. The trickle-down effect is sure to improve playing conditions and enhance the golf experience for all involved.
- Its value to our educators as an avenue to share their hard work and newfound knowledge with individuals who can appreciate the effort and put that knowledge into the field.
- Its value in promoting good relations with our neighbors. Each year we are getting more and more participants from outside the Carolinas. In fact, this year we have invited leaders from some of our neighboring states in an effort to promote this even more.



**Bill Kennedy, CGCS
President**

The value seems to improve each year and the inventory of what this year's Conference and Trade Show has to offer is even larger and more diverse than ever. Some key components include:

- 1,300 seats for education
- 48 speakers
- 28 Total seminars
- 3 panel discussions
- 16 new seminars
- 400 trade show booths
- Our Distinguished Service Award presentation to Steve Sheets
- A 300-plus player golf championship at Barefoot Resort
- Sporting clays at Backwoods Quail Club
- Tuesday Night's "Orange Hour" – new this year
- 27-Hole Challenge with a grand prize of \$3,000
- Return of the "Innovative Superintendents" with some of our most creative thinkers

I encourage you to join myself and over 2000 of our closest friends this November 16-18 and experience the value for yourself.

Bill Kennedy, CGCS

Bill Kennedy, CGCS
President

Board of Directors



› Officers



**Vice-President
David Lee**
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**Past President
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› 2015 Conference & Show Committee Members

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Cindy Baldwin, Education Coordinator, Carolinas GCSA
Trent Bouts, Tee Media Consulting
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Bert McCarty, Ph.D., Clemson University
Jim Kerns, Ph.D., NC State University
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Pat O'Brien, Agronomist, USGA SE Region
Danny Allen, Camden Country Club
Scott Kennon, CGCS, Myers Park Country Club
Matthew Wharton, CGCS, Carolina Golf Club
Rob Daniel, CGCS, RiverTowne Country Club
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Charlotte, NC

› Executive Director and Staff



Tim Kreger
Executive Director



Angie Davis
Office Manager



Cindy Baldwin
Education
Coordinator



Melissa Smith
Membership
Coordinator



Kim Clark
Local Association
Coordinator



Trent Bouts
Editor
Carolinas Green

Summary of Conference and Show



› Monday, November 16, 2015

Golf Championship at Barefoot Resort 12:00 noon Shotgun Start
Sporting Clay Event, Back Woods Quail Club, Georgetown, SC 12:00 noon - 3 p.m.

Seminars * 12:30 p.m. - 4 p.m.

- Optimize Soil Health to Enhance Turf Growth & Quality
- Understanding Factors That Affect Pesticide Fate & Behavior
- Advanced Weed Management
- Turning Your Golf Course Green Using Turf Colorants
- Management of Diseases in Bentgrass
- Managing Annual Bluegrass Weevils
- Phosphate & Phosphite - Why Does One Letter Make Such a Difference?

Registration, Hall of Fame 11 a.m. - 6 p.m.
Exhibitor Move-In for Large Equipment 6 p.m. - 9 p.m.

› Tuesday, November 17, 2015

Exhibitor Move-In 7 a.m. - 2:30 p.m.
Registration, Hall of Fame 7 a.m. - 6:30 p.m.

Morning Seminars* 8 a.m. - 11:30 a.m.

- The Search for Agronomy's Holy Grail III
- Advanced Nitrogen Fertilization
- Managing Turfgrass Root Systems in the Southern & Transition Climatic Zones
- Weather: Making Sense of Mother Nature's Moods
- Turfgrass Microbiology
- Assistant Superintendents! Increase Your GC Experience by 10 Years in Three Hours
- Pesticide Management: Maximum Results, Minimal Impact
- IPM Strategies for New Warm-Season Cultivars
- Choosing and Using Native Grasses & Ornamentals
- Winter Management of Ultradwarf Bermudagrass Putting Greens

Afternoon Seminars* 12:30 p.m. - 4 p.m.

- The Straight Truth on Bentgrass
- Today's Superintendent: The Most Valuable Member of the Management Team!
- Using Wetting Agents on the Golf Course
- Hazardous Duty: Basic Bunker Maintenance
- Aquatic Plant Management for Golf Course Waterbodies
- Golf Course Safety Program: Development & Implementation
- Dealing with Bugs & Crud Affecting Warm-Season Turfgrass Golf Courses
- Greens and Grow-Ins: Resurface or Rebuild?
- Tweet Like a Rock Star!
- Staying on Course: Helping Your Family Survive Your Work
- Zoysiagrass Management

Seminar Luncheon, Ballroom DE 11:30 a.m. - 12:30 p.m.
Carolinan GCSA Student Chapter Turf Bowl, Ballroom D 2 p.m. - 4 p.m.
Trade Show Open 4 p.m. - 7 p.m.
Orange Hour, Ballroom ABC 7 p.m. - 8 p.m.

› Wednesday, November 18, 2015

Registration, Hall of Fame 7 a.m. - 2:30 p.m.
Fellowship Breakfast, Ballroom D 7 a.m. - 8 a.m.
General Education Session, Ballroom E 8 a.m. - 9:15 a.m.
DSA Presentation, Ballroom E 9:15 a.m. - 9:30 a.m.
Annual Business Meeting, Ballroom E 9:30 a.m. - 10 a.m.
Trade Show Open 10 a.m. - 2:30 p.m.
Skin Cancer Screenings, Booth # 3701 10:30 a.m. - 2:30 p.m.
Buffet Luncheon in Exhibit Hall 11:15 a.m. - 1:45 p.m.
27-Hole Challenge Prize Giveaway in Exhibit Hall 2:00 p.m.
Exhibitor Tear Down 2:30 p.m. - 12 a.m.
General Education Session, Ballroom E 2:30 p.m. - 5:00 p.m.

**All seminar locations will be posted at the registration area.*

Corporate Partners

MONDAY GOLF CHAMPIONSHIP	 Smith Turf & Irrigation TORO Golf Championship	WEDNESDAY FELLOWSHIP BREAKFAST	 CORBIN TURF & ORNAMENTAL SUPPLY, INC.  NEWLIFE Turf	27-HOLE CHALLENGE	 JOHN DEERE GOLF Revels Turf & Tractor Greenville Turf & Tractor ShowTurf
MONDAY AND TUESDAY SEMINAR EDUCATION	 syngenta	STUDENT TURF BOWL	 PRECISION LABORATORIES Results. Expect it.™	SEMINAR REFRESHMENT BREAKS & MOBILE APP	 Harrell's Growing a Better World®
SPORTING CLAY EVENT	 Bayer  CAROLINA FRESH FARMS	DSA DINNER	 J.K. Morro, Inc. Soil Amendments and Liquid Fertilizer	MBCC PARKING SPONSOR	 Bayer  CAROLINA FRESH FARMS  Nufarm
TUESDAY SEMINAR LUNCHEON	 GOLF AGRONOMICS  QUALI-PRO	WEDNESDAY GENERAL SESSION AND ON SITE COMMUNICATIONS	 SUNBELT RENTALS  Radios FOR GOLF	WELCOMING SPONSOR	 Green Resource
EXHIBIT HALL PLANT DESIGNS	 McPHERSONS GREENHOUSES	WEDNESDAY BUFFET LUNCHEON	 Vertex Standard Authorized Dealer  ArmorTech®  COASTAL FLORATINE INC.	TECHNOLOGY STATION	 BASF We create chemistry  modern turf  Vereens Turf Products
TUESDAY ORANGE HOUR	 TSP Rain Bird JACOBSEN	CONFERENCE E-NEWSLETTER	 GOLF COURSE INDUSTRY	A STEP AHEAD	 AGRI-B TECHNOLOGIES, INC. THE FOUNDATION FOR YOUR SUCCESS
TRASH CAN WRAPS	 Humate				

Conference and Show Golf Championship

Monday, November 16, 2015



› Love Course

The Love Course at Barefoot Resort is a traditional course with a Lowcountry character and incorporates Davis Love, III's Carolina golfing experiences in the design. This visually striking course features course generous landing areas and greens complexes similar to those found on Pinehurst #2 at the 1999 U.S. Open. The Love Course is a Par 72 and plays over 7,000 yards. The course will challenge the good player, yet provide playability and enjoyment for the average player.

Tee and fairways consist of GN-1, which is a hybrid turf developed by Greg Norman Turf. The approach areas consist of Tif-sport Bermuda grass. The greens surfaces are newly acquired Champion UltraDwarf and the rough areas are 419 Bermuda grass.



› Norman Course

Seven holes along the Intracoastal Waterway highlight the Norman course. Framed by the site's original vegetation, each hole enhances the beauty of its natural vistas. Combined with open green complexes and fairways running up to the sand, the Norman course presents a stunning challenge for any golfer. Norman's philosophy here is to bring into play the "bump and run" shots around the greens. Tees and fairways consist of GN-1, which is hybrid turf developed by Greg Norman Turf. The approach areas are TifDwarf and greens surfaces consist of Champion Ultradwarf Grass.



› Fazio Course

Like many European courses, the Fazio course does not return to the clubhouse after nine holes. Still it is not a British linksland course, but rather a classic Lowcountry course, filled with live oaks, pines, sand, natural areas and native grasses. Waste areas and formal bunkers provide visual and strategic effect, while natural elevation changes add drama and excitement. Water features can be seen on 15 holes, yet many lakes are in out-of-play areas to ensure playability. Tees and Fairways are covered with GN-1 and approaches are TifSport Bermudagrass. Greens are Champion Ultradwarf Grass and the roughs are 419 Bermudagrass.

- 2012 "Top 15 Best You Can Play in SC" (#11) - Golfweek
- 2012 "SC Top 50 Golf Course-Grand Strand" (#16) - SC Golf Course Ratings Panel



Tournament Golfers and Sporting Clay Shooters

Join us for an STI 90th Anniversary Celebration

on Monday, November 16th at the House of Blues from 5PM to 7PM!

Food, beverages and fun after a day at Barefoot Resort or Back Woods Quail Club.

After you register for the tournament or sporting clays, you will receive an e-vite to this event to come celebrate with us.



Golf Championship Information

Monday, November 16, 2015



In Partnership with



TORO
Golf Championship

› Golf Schedule

11 a.m. - 12 noon CHECK- IN

All golfers must check in at the Carolinas GCSA Registration Desk at Barefoot Resort prior to the shotgun start.

12 noon SHOTGUN START

› Championship Flight A & B - Medal Play Tournament

- 1st, 2nd, 3rd place Gross & Net
- Overall Gross
- Carolinas GCSA Superintendent Member Champion

Overall Gross Carolinas GCSA Affiliate Member Champion

(Limited to first 100 entries for purpose of flighting and speed of play)

› Senior Division (age 50 and up) – Medal Play Only

- 1st Place Gross & Net
- Will play in senior flight from senior tees

› Four Ball Flights A & B

- Two Person Team Event
- Number of flights based on number of entries
(Limited to first 50 team entries)
- 1st, 2nd, 3rd Place Gross & Net

› Captain's Choice Flights A & B

- Four Person Captains Choice Team Event
(Limited to first 50 paired entries)
- 1st Place Gross & Net

› Tee Gift

Provided by Smith Turf & Irrigation
The Toro Company and Carolinas GCSA
Logoed Valuables Pouch and
STI 90th Anniversary Hat



› Closest to the Hole: 1 iPad per course



› Longest Drive: 1 Beats Headphone per course



› Hole in One

- Club Car Carryall 500 utility vehicle (1 per course)
Designated to winning individuals home course/
club
- Class A, AA, SM & C Members Only

› Championship Flights (Medal Play Only) Winner

- Closest to the Hole wins a YETI Cooler
- Class A, AA, SM & C Members Only

› Hosts

Barefoot Resort: John Hughes
Director of Golf Course Maintenance

Love Course: Shane Carrick & Alan Lucas
Golf Course Superintendents

Norman Course: Shane Carrick
Golf Course Superintendent

Fazio Course: Alan Lucas
Golf Course Superintendent

Golf Championship General Rules



› Eligibility

Players must be registered to attend or participate in the Carolinas Golf Course Superintendents Conference & Show. Superintendents and affiliates will play in mixed foursomes. Contestants will select to play in Medal Play, Senior Medal Play, Four Ball*, or Captains Choice** Division.

**Four Ball teams sign up with one partner on registration form. If you would like to play in four ball, and do not have a partner, the Carolinas GCSA will assign a partner.*

***Captain's Choice teams may sign up with ONE partner on the registration form. If you would like to play Captain's Choice, you do NOT have to sign up with a partner, this is just an option.*

› Tournament Formats

MEDAL PLAY

- This is a stroke play individual 18-hole golf event.
- Each contestant will play his or her own ball out on each hole and report their score.
- There will be two flights divided by handicap once field is set.

SENIOR MEDAL PLAY

This is identical to the Medal Play with these exceptions: Only contestants over age 50 are eligible; only 1st place gross and net will be awarded in this flight.

FOUR BALL

- This is a two person team event.
- Both players will complete the hole and then select the better of their scores to report for their score on each of the 18 holes.
- There will be two flights divided by combined team handicap once field is set.
- Each team will play alongside another team selected by the Carolinas GCSA.

CAPTAIN'S CHOICE

- This is a four person team event.
- Two contestants will be allowed to register together, and your other two players will be paired with you by the Carolinas GCSA.
- All four players will execute their desired shot from the teeing ground, then select the best respective shot, and repeat that process until the ball is holed.
- Only one team score per hole will be counted.
- There will be two flights divided by combined team handicap once field is set.

LOCATION: The Tournament will be played at Barefoot Resort – Love Course, Norman Course & Fazio Course.

GOLF ENTRY FEE: Member - \$100 by October 18, \$115 after October 18. Non-member - \$125 by October 18, \$140 after October 18 (Per Player) Entry fee includes green fee, cart fee, prizes and reception.

ENTRY DEADLINE: First 300 players will be accepted. No entries will be accepted after the first 300 players or November 3, 2014, no exceptions.

CANCELLATION POLICY: First 300 players will be accepted. No entries will be accepted after the first 300 players or November 2, 2015, no exceptions.

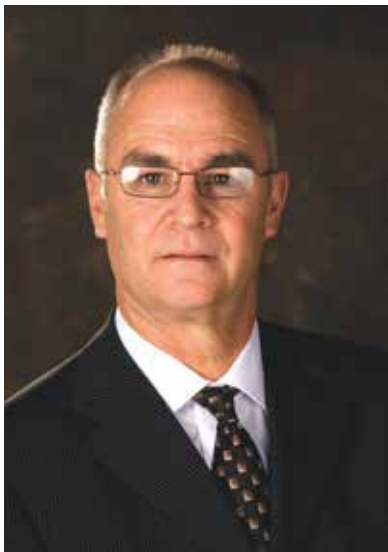
› Golf Championship Committee

- Rob Daniel, CGCS, River Towne Country Club, Mt. Pleasant, SC - Chairman
- Matthew Wharton, CGCS, Carolina Golf Club, Charlotte, NC

Any questions should be directed to Rob Daniel at 843-442-7514; or Tim Kreger, Executive Director, Carolinas GCSA at 800-476-4272.



➤ Steve Sheets



The road to the top is often long and winding but rarely is that so literally true as it was for Steve Sheets. In 1984, Sheets drove 342 miles negotiating switchbacks and hairpin curves as he climbed the last of almost 5,000 feet to arrive at Linville Ridge Country Club. Until then he was golf course superintendent at Belvedere Plantation in Hampstead on the North Carolina coast. Now he was going

from sea level to caring for the highest golfing terrain east of the Mississippi River.

There can be no greater contrast in climate and growing conditions in the state. To make it work, Sheets says he unashamedly picked the brains of two veterans of mountain golf, Ernie Hayes and Aylor Rogers. "Relationships are everything," Sheets says, and he has built many over nearly 50 years in and around golf course maintenance. "That's the thing about what we do in this business. Everyone is always willing to help their fellow superintendent."

That applies to Sheets himself and is a significant factor in why he will receive the Carolinas GCSA Distinguished Service Award at this year's Conference and Show in Myrtle Beach, SC. Sheets has given much to many over the decades, often directly, sometimes indirectly, always generously. He has helped groom successful superintendents, build local associations and steer the Carolinas GCSA along its current path. There are superintendents who have never met him who owe him thanks all the same.

T. (Thomas) Stephen Sheets grew up in Asheboro, NC and was often at the golf course while his father played. At 15 he took a summer job on the golf course maintenance staff at Uwharrie Country Club. His father would drop him off in the morning then pick him up after work. Often they would play some golf before heading home. A passion was born but the marriage to the profession didn't come until after Sheets spent several years wondering what he wanted to be.

Two years at Wingate College didn't bring much clarity so he signed on to the fledgling turfgrass program at North Carolina State University under the likes of Drs. Bill Gilbert, Carl Blake and Leon Lucas. All through school, both high school and

college, he'd worked on golf courses, Uwharrie and Pinewood Country Club. But even upon graduation his career path was unclear and he moved to Louisiana to work for a surveying company for nine months.

He returned to Asheboro and soon earned the assistant superintendent position under Bernie Greene on the South course at Whispering Pines in the North Carolina Sandhills. Barely a year later, at the tender age of 23, Sheets was the golf course superintendent at Belvedere. He may have been greener than the grass he was growing but he did well enough to spend seven and half years at Belvedere before fate intervened.

Arl Greene Jr., who was superintendent at Linville Ridge, died in the fall of 1983. Greene was the brother of Bernie Greene and father of Carolinas GCSA past-president John Greene. Although he didn't know it at the time, Sheets had gained the beginnings of a toehold in the mountains when he worked for Bernie Greene at Whispering Pines. He interviewed for the job at Linville Ridge early in '84 and has been there ever since.

Today, he is director of golf course maintenance, development and operations. If the title is a mouthful, the job is a handful. Sheets oversees not just the golf course but also POA, landscape maintenance, and all new projects undertaken by the development which spans 1,800 acres and has 384 homes and condos. The course, which is open from May 1 to October 31, sees about 10,000 rounds each year. At Sheets' behest, Linville Ridge has hosted a number of Carolinas GCSA fall meetings.

Along the way, Sheets became probably the only person to serve as president of both the Eastern North Carolina Turfgrass Association and the Western North Carolina Turfgrass Association. He was the last to serve two years as president of the Carolinas GCSA, 1992-93. During his presidency he transformed Carolinas Green from a "flimsy, pale green pamphlet" into a genuine magazine. It was part of a broader push by the Carolinas GCSA to enhance the image and perception of the superintendent.

With the new-look magazine and a dedicated Superintendent Image Campaign – which survives today – the goal, as Sheets wrote in his president's message then, was to give the golfing public and the wider community access to "proper information, not hearsay." "We have acquired more responsibility as each year passes and we have been thrust into the limelight as public awareness over environmental issues has increased," he wrote – in 1992.

Groundwork laid then by Steve Sheets and others like him since is the very foundation on which the success of today's Carolinas GCSA sits. Distinguished service indeed

> Sporting Clay Event

12 noon – 3:30 p.m. Registration Required



8 a.m. CLUB OPENS FOR PRACTICE

11:15 a.m. – 12 noon REGISTRATION

12 noon – 1 p.m. LUNCH

1 p.m. – 3 p.m. EVENT

3 p.m. – 3:30 p.m. AWARDS & PRIZES

In Partnership with Bayer Crop Science, LP and Carolina Fresh Farms the Carolinas GCSA is pleased to offer sporting clays, the fastest growing shotgun sport in the U.S., at Back Woods Quail Club, Georgetown, SC.

LOCATION: Back Woods Quail Club, 647 Hemmingway Lane,



Georgetown, SC 29440 Situated just off SC 51 south at the intersection of SC 24 and SC 41/51, Georgetown, SC (Approx. 1 hour from the Myrtle Beach Convention Center).

Back Woods offers 2 ten station sporting clay courses, skeet fields, two five stands and a make or break game. Visit the website at www.backwoodsquailclub.com or call the club at 843-546-1466 for more information.

REGISTRATION FEE: \$50 Includes 100 target sporting clay event; lunch and prizes. Pre-registration is required. Limited to 70 shooters.

ELIGIBILITY: Shooters must be registered to attend or participate in the Carolinas Golf Course Superintendents Association Conference & Show.

GENERAL RULES: Shooters must provide their own ammunition and hearing and eye protection (standard ear plugs and safety glasses). Ammunition, hearing and eye protection are available for purchase at the gun club. For safety reasons, no shot larger than 7 ½ can be used at the gun club (for example #1, #2, #3, #4, #5, and #6 are NOT allowed). Back Woods Quail Club will provide gun rental for those who need one.

DIRECTIONS: Driving directions will be provided in your confirmation letter upon registration.

ENTRY DEADLINE: Pre-registrations must be received by Monday, November 2, 2015.

CANCELLATION POLICY: The Carolinas GCSA must be notified of any cancellations by Monday, November 9, 2015 in order to receive a refund.

> Monday Seminars • 12:30 p.m. - 4 p.m.

A01 Optimize Soil Health to Enhance Turf Growth and Quality

Cale A. Bigelow, Ph.D., Professor of Agronomy, Purdue University
Dara Park, Ph.D., Assistant Professor Turfgrass Soil & Water, Clemson University

Explore the variety of amendments that increase the biological, chemical, and physical functionality of soil. Learn how traditional and non-traditional soil amendments are used to overcome soil challenges, promoting the optimal soil environment for turfgrass growth and quality. Compare relative costs, environmental concerns, and the sustainability of using specific soil amendments. Study root stimulants, microbial community stimulants, water and air movement, increasing cation exchange capacity, saline and sodic soils and high bicarbonates. After this seminar you will:

- Understand soil health and how soil amendments may assist with increasing it
- Know the differences between organic and inorganic amendments
- Identify specific challenges and soil amendments used to overcome those challenges
- Access whether soil amendments should be incorporated into your turfgrass management plans by evaluating soil biological, physical and chemical qualities and turfgrass quality.
- Evaluate soil and water tests and determine soil amendments for increasing nutrient retention, CEC, management of sodium, salinity, bicarbonates and soils irrigated with pure water.



GCSAA Ed Points: .30



PESTICIDE CREDITS
SC-1 hrs. NC-1 hrs. GA-1 hrs. TN-3 hrs.

I02 Understanding Factors that Affect Pesticide Fate and Behavior

Travis Gannon, Ph.D., Assistant Professor of Crop Science, NC State University

Pesticides are commonly used to manage weeds, insects, and diseases on the golf course. Occasionally, pesticides move off-target damaging non-target plants or may not be efficacious. In other scenarios, herbicides may cause adverse injury to the desired turf. Understanding the biological and chemical attributes of pesticides and how they behave after application may increase pest control while minimizing off-target movement and injury. Seminar discussions will focus on specific examples of off-target injury and failed herbicide applications. Overall, participants will have a better understanding of pesticide fate and behavior and will be able to devise best management practices to minimize off-target pesticide injury and maximize pest control.



GCSAA Ed Points: .30



PESTICIDE CREDITS
SC-3.5 hrs. NC-3.5 hrs. GA-3 hrs. TN-3 hrs.

Monday Seminars

Monday, November 16, 2015 • 12:30 p.m. - 4 p.m.

A 03 Advanced Weed Management

Bert McCarty, Ph.D., Professor of Turfgrass Science, Clemson University

This workshop integrates weed life cycles, environmental factors affecting weed growth and occurrence, identification, and chemical and cultural control in developing a holistic weed management program. All major warm- and cool-season weeds will be presented and discussed, along with parameters influencing pesticide performance, fate, potential herbicide resistance, and plant growth regulator use. A general knowledge of turf culture and experience in pesticide application are required for maximum benefit.

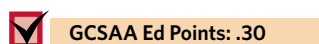


I 04 Turning Your Golf Course Green **NEW** Using Turf Colorants

Grady Miller, Ph.D., Professor and Extension Specialist, Turfgrass Science, NC State University

Robert C. Vaughan, Jr., Golf Course Superintendent, Brunswick Plantation Golf Resort

This seminar will provide an overview of using turf colorants along with specific research results and practical experiences using many of the commercially available products. The presentation will include performance of products along with a basic economic analysis. Application techniques with information about nozzles, carrier volumes, rates, and equipment will be discussed. Upon completion attendees will be familiar with colorant options, understand the differences in products, understand the varying effects of rates & dilutions and understand the limitations of using these products. Attendees will hear from a researcher and a passionate superintendent that is very experienced with using these products.



I 05 Management of Diseases in Bentgrass

Bruce Martin, Ph.D., Professor of Turfgrass Pathology, Clemson University

Major diseases of bentgrass will be profiled and environmental effects promoting them will be discussed. In depth information will be presented on fungicide control and programmatic suggestions will be offered. Audience participation and open discussion will occur as well. Diseases in mountain environments will be emphasized as well as those limiting bentgrass survival in heat stress environments.



I 06 Managing Annual Bluegrass Weevils **NEW**

Patricia J. Vittum Ph.D., Professor of Turf Entomology, University of Massachusetts - Amherst

The annual bluegrass weevil has long been a major pest of golf courses in the Northeast, but recently has become established in parts of the Carolinas. This seminar will include information on the life cycle of the insect, cultural conditions that favor its activity, and the most current chemical control strategies that provide good control of the insect. The seminar will also describe the potential for development of resistance to pyrethroids, and specific suggestions for reducing the likelihood the resistance will develop in a given location.



A 07 Phosphate & Phosphite - Why Does One Letter Make Such a Difference?

Beth Guertal, Ph.D., Professor of Turfgrass Management & Soil Fertility, Auburn University

Phosphate versus phosphite, one's a fertilizer, the other's a....fertilizer? Fungicide? This seminar will cover phosphate and phosphite, with an examination of phosphate fertilization and it's fate in the environment. The role of phosphite as a fungicide will be covered, and we'll also talk about the interaction between phosphate and phosphite.



E Entry **I** Intermediate **A** Advanced

OTHER ACTIVITIES

11 a.m. - 6 p.m.

> Registration for Early Arrivals

The Myrtle Beach Convention Center - Hall of Fame

12 noon - 3:30 p.m.

> Sporting Clay Event

Backwoods Quail Club, Georgetown, SC

6 p.m. - 9 p.m.

> Exhibitor Move-In for Large Equipment

TSP Orange Hour

Tuesday, November 17th
7 p.m. - 8 p.m.
**Ballroom ABC by
Hall of Fame**

Myrtle Beach Convention Center



WE'RE GIVING YOU YOUR TUESDAY NIGHT BACK!

#tsporangehour

TWEET TO WIN PRIZES, INCLUDING A GRAND PRIZE OF A DJI DRONE!

This event is open to all show attendees and exhibitors, and will include heavy hors d'oeuvres and cash bar.

Registered attendees : Stop by the TSP booth #1607 on Tuesday to receive **two complimentary drink tickets** for the event!

TSP
JACOBSEN®

Tuesday General Activities

Tuesday, November 17, 2015



All refreshment breaks provided in partnership with Harrell's, Inc.

Tuesday Seminar Luncheon Menu

- Classic Caesar Salad with Parmesan Herb Croutons
- Chicken Parmesan
- Sausage Lasagna
- Penne Pasta with Creamy Roasted Garlic Alfredo
- Roasted Zucchini and Squash with Olive Oil
- Focaccia Breads and Garlic Bread Sticks
- Fresh Baked Cookies and Brownies
- Sweet and Unsweet Tea



7 a.m. – 6:30 p.m.

› **Registration**

Hall of Fame

7 a.m. – 2:30 p.m.

› **Exhibitor Move-In**

11:30 a.m. – 12:30 p.m.

› **Luncheon**

Ballroom DE

Luncheon for 2 Tuesday Half-Day Seminar Attendees

Presented in Partnership with
Golf Agronomics and Quali-Pro

2 p.m. – 4 p.m.

› **Carolinas GCSA Student Turf Bowl**

Ballroom D

Presented in Partnership with
Precision Labs

4 p.m. – 7 p.m.

› **Trade Show Open**

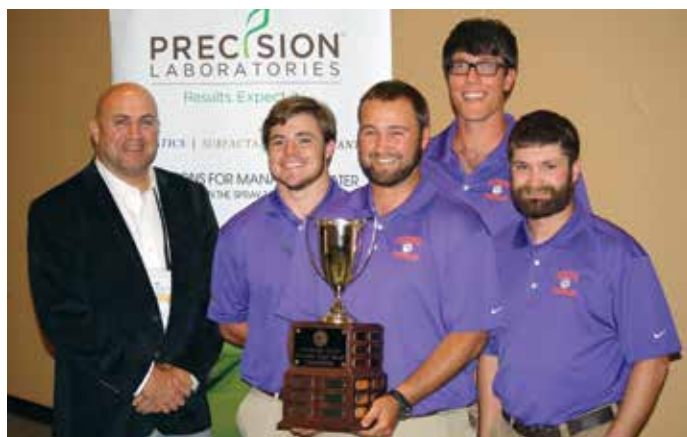
Exhibit Hall

7 p.m. – 8 p.m.

› **Orange Hour**

Ballroom ABC

Presented in Partnership with
Tri-State Pump & Control



Moderator Bo Barefoot, of Precision Labs, with Clemson's winning team members Clay Barnette, Cory Hendrix, Frank Lamson-Scribner and Ben Wood.

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COMMITTED TO THE CAROLINAS
WILSON • GREENSBORO • ABERDEEN • WILMINGTON • LINWOOD • KINSTON

Morning Seminars

Tuesday, November 17, 2015 • 8 a.m. - 11:30 a.m.



E 08 The Search for Agronomy's Holy Grail - Part III

The Carolinas kingdom has gathered a new legion of knights to venture deep into the forests of science, theory and real world experience in the continuing quest to find agronomy's Holy Grail. This year's panel will be steered by the Brown Knight, Turf Republic's Bill Brown, CGCS whose own search spans more than 20 years as a superintendent and social media wizard. Other new faces at his side include Purdue University's soil properties and nutrition expert Dr. Cale Bigelow and Dr. Jack Fry, master of Horticulture from Kansas State University. Listen to the tales these men bring from their lands so far away while several of our own champions of turfgrass science share discoveries of their own in this eternal quest.

Knights of this year's Turfgrass Roundtable

Cale Bigelow, Ph.D., Professor of Agronomy, Purdue University

Bert McCarty, Ph.D., Professor of Turfgrass Science, Clemson University

Rick Brandenburg, Ph.D., Professor of Turf Entomology, NC State University

Jack Fry, Ph.D., Professor of Horticulture, Kansas State University

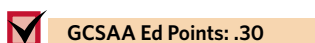
Lee Butler, Extension Coordinator Turf Pathology, NC State University



A 09 Advanced Nitrogen Fertilization **NEW** Top Seller (GIS 2015)

Beth Guertal, Ph.D., Professor of Turfgrass Management & Soil Fertility, Auburn University

Improve your knowledge of nitrogen fertilization with this advanced seminar. It will cover the fate of applied Nitrogen in a turfgrass system. Where does that Nitrogen go, and how long can it take for a turfgrass plant to take that Nitrogen up? How do the Nitrogen dynamics change with Nitrogen rate, source or method of application (such as foliar)? This half-day seminar will also cover new fertilizer sources and chemistries entering the turf market.



E Entry **I** Intermediate **A** Advanced

I 10 Managing Turfgrass Root Systems in the Southern & Transition Climatic Zones

Keith Karnok, Ph.D., Professor of Crop & Soil Science, University of Georgia, Retired

This seminar will cover the basics of both cool and warm season turfgrass root growth. Areas to be discussed include: Optimum temperatures for root growth, environmental and management practices affecting root growth such as fertilization, irrigation, mowing, cultivation, pesticides and biostimulants.

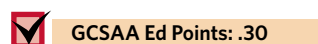


E 11 Weather: Making Sense of Mother Nature's Moods

Hope Mizzell, Ph.D., SC State Climatologist, SC Department of Natural Resources, Columbia, SC

Leonard Vaughan, Meteorologist, National Weather Service, Columbia, SC

Growing grass has as much to do with what goes on above ground as it does below the surface. While superintendents can do a lot to determine what plays out at root level, what comes out of the sky remains firmly under Mother Nature's control. In this brand new seminar, expert climatologists and meteorologists will help you better understand and respond to her changing moods. Discover a wealth of resources and learn how to get the best out of them, so you can do the right thing for your course today and your facility in the long-term. You will leave this seminar better equipped to understand and act on weather data, short-term forecasts and longer-term trends that will affect the turfgrass you maintain.



A 12 Turfgrass Microbiology **NEW**

Jim Kerns, Ph.D., Turfgrass Plant Pathologist, NC State University

Did you know there are more bacterial cells in your body than your own cells? We can't see microorganisms, but they have an enormous impact on just about everything on Earth. Your turf is no different. Every year, the amount of interest and products aimed at managing your microbes grows. With so many options, what should you do? In this seminar, we will introduce you to the fundamentals of turfgrass microbiology, teach you about the limitations of our methods for measuring them, and then summarize the state of the science on what we can (and can't) do to manage microbes in a beneficial way. Finally, we will end with an optimistic vision for the future of soil microbial management.



E 13 Assistant Superintendents! Increase Your Golf Course Experience by 10 Years in Three Hours!

Bud White, Director of Grounds, The Club at Carlton Woods, The Woodlands, TX

Building experience has always been one of the most difficult problems for young people in any industry. Certain items, such as major construction or renovation may take 20 years to experience, if at all. This seminar touches on dozens of key ideas, procedures, and programs in the golf course industry that take years to experience. Ranging from construction and renovation details to pest management and identification keys to specialized turf selection and management, you will experience many items a young turf professional may not have seen before.

 **GCSAA Ed Points: .30**

I 14 Pesticide Management: Maximum **NEW** Results, Minimal Impact

Patricia J. Vittum, Ph.D., Professor of Turf Entomology, University of Massachusetts - Amherst

This seminar will provide a brief overview of several aspects of pesticide management, including movement of pesticides after application (volatilization, leaching, run-off) and the potential for target pests to develop resistance to the products we use. The session will also discuss the controversial topic of impact of insecticides on honey bees and other pollinators. The concept of "Environmental Impact Quotients" (EIQs), a tool that can be used to assist in determining which pesticide will be least detrimental to the environment, will be introduced. Finally, management of mole crickets will be presented as a case study, comparing the most commonly used insecticides for likelihood of moving, persistence, potential for development of resistance, and impact on pollinators.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-3.5 hrs. NC-3.5 hrs. GA-3 hrs. TN-3 hrs.

E 15 IPM Strategies for New Warm-Season Cultivars

Charles Peacock, Ph.D., Professor of Crop Science, NC State University

Over the last 15 years new cultivars of warm-season grasses have been released by both public and private breeding programs. This seminar will provide information on performance characteristics of these new grasses, their agronomic requirements and how they differ and how to develop IPM strategies for dealing with pest problems.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-2 hrs. NC-1 hrs. GA-3 hrs. TN-3 hrs.

I 16 Choosing and Using Native Grasses **NEW** & Ornamentals

Bob Polomski, Ph.D., Professor of Plant & Environmental Sciences, Clemson University

The sustainability movement has contributed to the increased demand for native plants to improve environmental quality because of their role in habitat restoration, stormwater runoff, and water quality. The nursery industry has responded by introducing natives that enjoy widespread appeal: compact growth habits, large flowers, attractive fruits, and extended bloom times. Prior to adding native plants into the golf course, superintendents must filter through the misconceptions and misinterpretations and focus on the facts about selecting and managing appropriate native grasses, herbaceous perennials, and woody shrubs and trees. Focusing on the three A's- Appearance, Adaptability, and Availability - attendees will learn how to enhance the ecological benefits of their golf courses with the establishment and maintenance of appropriate native plants.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-0 hrs. NC-0 hrs. GA-3 hrs. TN-3 hrs.

I 17 Winter Management of Ultradwarf Bermudagrass Putting Greens

Michael Goatley, Ph.D., Professor of Crop and Soil Environmental Science, Virginia Tech

Patrick O'Brien, SE Region Agronomist, USGA Green Section

Winter management of ultradwarf bermudagrasses is an art and science. This seminar will reveal how superintendents prepare ultradwarf putting greens for winter, manage them for playability, and protect them against cold weather.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-1.5 hrs. NC-1.5 hrs. GA-1 hrs. TN-3 hrs.

Pesticide Recertification Credits

Aquatic Recertification Credits

Sign up forms will be in the classrooms for pesticide or aquatic recertification credits in North Carolina, South Carolina, Tennessee, and Georgia. The forms will be available to sign after the speakers have presented the appropriate topics.

GCSAA Education Points

GCSAA Education Points are applicable towards entry or renewal of Class A and CGCS member status.

Afternoon Seminars

Tuesday, November 17, 2015 • 12:30 p.m. - 4:00 p.m.



E 18 The Straight Truth on Bentgrass **NEW**

Billy W. Lewis, Golf Course Superintendent, Dormie Club
Steven Shand, Golf Course Superintendent, The Cliffs at Walnut Cove
W. Austin Allison, Golf Course Superintendent, Timberlake Golf Club
Moderator: Bruce Martin, Ph.D., Professor of Turfgrass Pathology, Clemson University

Bentgrass putting surfaces that can be a golfer's dream in the good times can just as easily become a superintendent's nightmare in the bad. When you push a plant to brink of failure in order to get the best out of it the margin for error is often razor thin. Hear how three superintendents have found creative ways to manage that delicate balance and keep their sleepless nights to a minimum. From big ideas to tiny tips, this panel promises to deliver valuable takeaways for each and every bentgrass superintendent. Clemson University's Dr. Bruce Martin will moderate what is certain to be a can't-miss event.


 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-3.5 hrs. NC-3.5 hrs. GA-3 hrs. TN-3 hrs.

A 19 Today's Superintendent: The Most Valuable Member of the Management Team!

Barbara Jodoin, General Manager, The Members Club at Woodcreek & Wildewood

Today's Superintendent is truly the most valuable, talented member of any management team. The golf course maintenance department typically commands the largest percentage of budget dollars, the greatest percentage of capital investment annually and the largest staff across all club departments. This session provides a unique vision for the role of this department and its leadership that will enhance success within the department and broaden its influence across the club.

Today's Superintendent: Leader • Educator • Agronomist
Decision Maker • Environmentalist • Role Model

 **GCSAA Ed Points: .30**

I 20 Using Wetting Agents on the Golf Course **Top Seller (GIS 2015)**

Keith Karnok, Ph.D., Professor of Crop & Soil Science, University of Georgia, Retired


This seminar will cover the most important aspects of using wetting agents on the golf course. Emphasis will be placed on using wetting agents and penetrants to manage localized dry spots caused by water repellent soils. Wetting agent mode of action and the importance of wetting agent chemistry will be discussed. A review of the current and past wetting agent research will be presented.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-2 hrs. NC-2 hrs. GA-2 hrs. TN-3 hrs.

I 21 Hazardous Duty: Basic Bunker **NEW** Maintenance

Robert M. Randquist, CGCS, Director of Golf Course & Grounds, Boca Rio Golf Club GCSAA Past President

You love 'em and you hate 'em. Bunkers may be the most debated feature of the golf course. This half-day seminar will cover the design and maintenance issues involved in bunker management. Learn the factors that golfers use to form opinions about their playability. Topics will also include how raking, grooming, moisture content and control, and other surface-related cultural practices, impact maintenance and playability. Numerous factors involved in making informed decisions about sand selection, bunker maintenance and corrective renovation will be covered.

 **GCSAA Ed Points: .30**

E 22 Aquatic Plant Management for Golf Course Waterbodies

Rob Richardson, Ph.D., Assistant Professor, Aquatic & Non-cropland Weed Mgt. NC State University

Jack M. Whetstone, Extension Aquaculture Specialist, Clemson University (Retired)

Does your signature hole have water? Good management of aquatic resources is integral to whole course management. This seminar will give superintendents a complete overview of how to manage their aquatic resources including water quality, aquatic plant identification and integrated best management practices for control of the major aquatic weed problems. Specific instruction on the newest aquatic herbicides and use of aquatic herbicides in irrigation sources will be emphasized. How to manage turf areas and the use of buffers to reduce aquatic weed problems will be included in the course.


 **GCSAA Ed Points: .30**  **AQUATIC CREDITS**
SC-3.5 hrs. NC-3.5 hrs. GA-3 hrs. TN-3 hrs.

E 23 Golf Course Safety Program: **NEW** Development and Implementation

Mickey McCord, McCord Golf Services and Safety

Mark Jordan, CGCS, Westfield Group Country Club, GCSAA Director

"Safety is important and I know I should have a safety program, but I have no idea what I need or where to start!" If this sounds like something you've said, or thought, this seminar will answer all of your questions about "Safety Programs" and get you started implementing a comprehensive safety program at your course. We'll describe the key elements of a safety program and take you through a step by step approach to developing your own safety program including; written safety plans; understanding OSHA standards; safety training; record keeping; and what to expect if you have an OSHA inspection.

 **GCSAA Ed Points: .30**

I 24 Dealing with Bugs & Crud Affecting Warm-Season Turfgrass Golf Courses

Rick Brandenburg, Ph.D., Turfgrass Entomologist, NC State University
Jim Kerns, Ph.D., Turfgrass Plant Pathologist, NC State University


This half-day course will address the site specific problems associated with insect and disease management on warm-season grasses. Cost effective strategies to manage these pests change rapidly as new turf cultivars and cultural management strategies are employed, new pest problems emerge, and new products are registered. This course focuses on rapidly bringing turf managers up to speed on the latest pest information, new concepts for pest management, and the adoption and use of new pesticides. Included in the course will be identification and diagnosis of traditional insect and disease problems as well as new and emerging pest problems, discussions of the impact of environmental and cultural practices on pest abundance, and concepts for the development and use integrated pest management strategies.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-3.5 hrs. NC-3.5 hrs. GA-3 hrs. TN-3 hrs.

I 25 Greens and Grow-Ins: Resurface or **NEW** Rebuild?

Moderator: Bud White, Director of Grounds, The Club at Carlton Woods, Woodlands, Texas
Don Garrett, CGCS, The Walker Course at Clemson University, Clemson, SC
Joseph Kennedy, CGCS, Vanderbilt Legends Club of Tennessee, Franklin, TN
Randy Long, Golf Course Superintendent, Thornblade Club, Greer, SC


When your greens are good golfers think their hot dogs taste better and their beer is colder. Good putting surfaces are the lifeblood of any successful golf course operation. With new grasses, new technologies and new science at hand, courses are constantly monitoring the viability of their greens. In an acutely competitive environment, what goes into deciding which grass best fits your facility? How can you bring your new surfaces online as quickly as possible? Do you rip them up and start from scratch or minimize downtime by laying a new surface on old bones? Hear from three superintendents who have been there and done that as they go back and forth with Bud White, one of the widest-traveled, most-experienced agronomic hands in the industry.

 **GCSAA Ed Points: .30**

E 26 Tweet Like A Rock Star! **NEW**

Pat Jones, Editorial Director & Publisher, Golf Course Industry Magazine
Matthew Wharton, CGCS, Carolina Golf Club, Charlotte, NC
Tony Nysse, Golf Course Superintendent, Pine Tree Golf Club, Boynton Beach, FL

Three golf industry social media masters will help you determine how to make Twitter, Facebook and other platforms work to achieve your professional goals. Learn how to create and implement a social media strategy, ways to communicate more effectively, pitfalls to avoid and how to measure your results. Bring a laptop or tablet to this hands-on seminar!


 **GCSAA Ed Points: .30**

E 27 Staying on Course: Helping Your **NEW** Family Survive Your Work

Lisa Z. Goatley, Licensed Professional Counselor, VA
Mike Goatley, Ph.D., Professor, Crop Soil & Environmental Sciences, Virginia Tech

Careers in the golf turf industry present challenges in maintaining an appropriate balance between work and family life. Superintendents can have long and unpredictable hours with stressful mental and physical conditions. Family relationships may suffer when work demands are high. Get equipped with skills and strategies you can use to achieve healthy relationships at home and on the course:

- Identify your top priorities at work and at home
- Get the seven strategies to balance family and work roles
- Share the real-world experience of a Licensed Professional Counselor and academic in the turfgrass industry through 25 years of marriage and careers.

 **GCSAA Ed Points: .30**

I 28 Zoysiagrass Management **NEW**

Jack D. Fry, Ph.D., Professor of Horticulture, Kansas State University
Bert McCarty, Ph.D., Professor of Horticulture, Clemson University

Golf courses are ever seeking better grasses for their facilities with less maintenance and pesticide inputs. Learn from one of the world's leading experts from Kansas on zoysiagrass use and maintenance on golf courses. Topics covered include currently used and future cultivars and their characteristics, establishment, maintenance practices and costs, pest problems and their management, meeting player expectations, etc. This seminar will also cover the trend of using zoysiagrasses on golf greens - why this is being done and the dos and don'ts of this. This workshop will answer all of your questions of zoysiagrasses and what can be expected from them.

 **GCSAA Ed Points: .30**  **PESTICIDE CREDITS**
SC-2 hrs. NC-2 hrs. GA-3 hrs. TN-0 hrs.

Events and Education Session I

Wednesday, November 18, 2015



› Registration

7 a.m. – 2:30 p.m.

› Fellowship Breakfast

7 a.m. – 8 a.m.

Ballroom D

In Partnership with



CORBIN TURF
& ORNAMENTAL SUPPLY, INC.



Breakfast Menu

Fruit Cocktail • Farm Fresh Scrambled Eggs
Crispy Smoked Bacon • Southern Style Creamy Grits
Warm Biscuits with Sausage Gravy
Freshly Brewed Regular & Decaf Coffee
Chilled Orange Juice

› Featured Speaker

Patrick A. Murphy, *The River Club, North Augusta, SC*



Patrick is currently superintendent at The River Club in North Augusta SC where he has been for 11 years. Previously, he was superintendent at Cherokee Run Golf Club in Conyers, GA from 2000 - 2004; assistant superintendent at Houndslake Country Club in Aiken, SC 1998 - 2000; and superintendent at Augusta Municipal Golf Course from 1996 - 1998 in Augusta, GA. Patrick

is the current president of Midlands Turfgrass Association, has been married for 16 years and has 2 children ages 11 and 1. He has been an active member of Abilene Baptist Church in Augusta, GA for the past 11 years.

› Buffet Luncheon

11:15 a.m. – 1:45 p.m.

Exhibit Hall

In Partnership with



Buffet Luncheon Menu

Garden Fresh Mixed Greens with Tomatoes, Cucumbers, Cheddar Cheese and Bacon • Deviled Egg Potato Salad
Buttermilk Fried Chicken • Honey Baked Ham with Brown Sugar Honey Glaze • Creamy Macaroni and Cheese
Sautéed Green Beans with Sundried Tomato Butter
Country Collard Greens • Cornmeal Fried Okra
Corn Bread and Dinner Rolls • Sweet and Unsweet Tea

› General Education Session I

Ballroom E

Presiding – Rob Daniel, CGCS, *Director, Carolinas GCSA*

8 a.m. – 8:05 a.m.

Welcome – Bill Kennedy, CGCS, *President, Carolinas GCSA*



8:05 a.m. – 8:25 a.m.

Edaphic Factors that Affect Off-target Herbicide Movement and Injury in Turfgrass

Travis W. Gannon, Ph.D., *Assistant Professor Crop Science, NC State University*

8:30 a.m. – 9 a.m.

Nematodes: The Known Unknown

Brad Shaver, Ph.D., *Plant & Environmental Sciences, Clemson University*

9 a.m. – 9:15 a.m.

Regulatory and Political Update: At the end of the day (any day) it's all about (like it or not) politics

Chris Valauri, *NC Legislative Counsel, Carolinas GCSA*

Charlie Rountree, *SC Legislative Counsel, Carolinas GCSA*

9:15 a.m. – 9:30 a.m.

Distinguished Service Award

Presentation to Stephen Sheets, Linville Ridge Country Club

9:30 a.m. – 10 a.m.

Annual Business Meeting

Presiding – Bill Kennedy, CGCS, *President, Carolinas GCSA*

10 a.m. – 2:30 p.m.

Trade Show Open – Exhibit Hall

10:30 a.m. – 2:30 p.m.

Skin Cancer Screenings

Free Screenings at Booth #3701

Provided by Grand Strand Dermatology,
Sign-up sheet located at Registration Desk.

11:15 a.m. – 1:45 p.m.

Buffet Luncheon – Exhibit Hall

2 p.m.

27 – Hole Challenge Prize Giveaway

Exhibit Hall

Education Session II

Wednesday, November 18, 2015



› General Education Session II

Ballroom E

Presiding – **Drew Ramsey**, Director, Carolinas GCSA

2:30 p.m. – 3 p.m. USGA Southeast Region

Highlights of the 2015 Golf Season • **Pat O'Brien**, SE Region Agronomist, USGA Green Section

3 p.m. – 5p.m.

› Innovative Superintendents

Golf course superintendents may not know the answer to every puzzle right away but the good ones always come up with one that works. Superintendents are problem solvers by nature and because their facilities and situations are always unique, they need to be. Rarely is there a one-size-fits-all solution for anything. Hear from superintendents whose problem-solving skills have been at the forefront of significant improvement at their facilities. Draw inspiration and ideas from their experience on issues everything ranging from water to winterkill.

Moderator: **Pat O'Brien**, SE Region Agronomist, USGA Green Section

3 p.m. – 3:15 p.m.

Turf Drainage

Making 25 miles of drainage work in the mountains where rainfall tops 100 inches most years.

Thomas Bailey, Wade Hampton Golf Club, Cashiers, NC

3:15 p.m. – 3:30 p.m.

Goodbye Potable Water

How to save \$100,000-plus by turning off the tap on potable water use.

Robert Young, CGCS, Carolina Country Club, Raleigh, NC

3:30 p.m. – 3:45 p.m.

Making Sense of Sensors

Using data from beneath the surface to inform better decisions above ground.

Steven Agazzi, Kiawah Island –Turtle Point
Kiawah Island, SC

3:45 p.m. – 4 p.m.

Wooly Adelgid

A unique partnership provides hope for ironing out the bugs killing a beloved tree species.

Pete Gerdon, Grandfather Golf & Country Club, Linville, NC

4 p.m. – 4:15 p.m.

Painted Love

What happens to water use, fertilizer rates and mowing when turf colorants replace overseeding.

Jeff Mack, Country Club of Landfall, Wilmington, NC

4:15 p.m. – 4:30 p.m.

Timberrrr!

When tree removal paves the way for all kinds of benefits, both economical and environmental.

Richard McDanel, CGCS, Pine Lake Country Club
Charlotte, NC

4:30 p.m. – 4:45 p.m.

Tales of No Til

No til fairway conversions can save significant amounts of time and money when done right.

Brian Hollingsworth, CGCS, Dataw Island Club
Saint Helena Island, SC

4:45 p.m. – 5 p.m.

Winter Kill

Surviving the worst winter kill onset in more than two decades takes a cool head and a strong heart.

Kevin Smith, CGCS, Bryan Park Golf Club
Browns Summit, NC

27-Hole Challenge

The Carolinas GCSA is proud to present the 27-Hole Challenge event to member superintendents. Complete the 27-Hole tour of the trade show floor and get to know the industry partners who help make this outstanding event possible. (Winner is responsible for any applicable taxes)

Reminder – Pick up your 27-Hole Challenge scorecards in the exhibit hall at the 27-Hole Challenge Booth during trade show hours.

**\$7,500 in
cash
giveaways**



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Grand Prize \$3,000 Cash

2nd Prize \$2,000 Cash

3rd thru 6th Prizes \$500 cash

7th thru 15th Prizes Choice of a YETI Cooler, Costa Sunglasses or GoPro

Assistant Superintendent Member Drawing

1st Prize \$500 Cash

2nd thru 4th Prizes Choice of a YETI Cooler, Costa Sunglasses or GoPro

How to Play

- 27-Hole Challenge participants must be current Carolinas GCSA Class A or SM members. Participants in the Next Generation 27-Hole Challenge must be current Carolinas GCSA Class C (assistant superintendent) members.
- 27-Hole Challenge scorecards may be picked up at the 27-Hole Challenge booth #3720 in the exhibit hall during normal trade show hours.
- The event will consist of 27 exhibiting company booths. A hole flag will mark each booth and participants must have their score card stamped at each of the designated booths.
- 27-Hole Challenge booths will be located at various sites throughout the exhibit area and will be designated on the exhibit hall directory, which will be provided on-site.
- Cards must be stamped at each designated booth on either Tuesday or Wednesday during normal trade show hours. All cards must be turned in to the 27-Hole Challenge booth by 1:45 p.m. on Wednesday, November 18.
- All participant scorecards that contain all 27 stamps will be entered in the drawing for prizes.
- Drawing for prizes will be held at the conclusion of the Trade Show on Wednesday afternoon.
- 27-Hole Challenge participants must be present at the Trade Show reception area at 2:00 p.m. on Wednesday afternoon when the winners are announced in order to be eligible for the prizes.



2015 Superintendent Image Campaign



The Carolinas GCSA greatly appreciates the support of the following companies in promoting awareness and appreciation of the role of golf course superintendents.

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Fax (843) 766-8715
john@agri-b.com

Arboguard Tree Specialists

Barry L. Gemberling
Senior Corporate Arborist for The Carolinas
6350 Royal Celadon Way
P O Box 26767 • Charlotte, NC 28221
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Fax (704) 688-7238
bgemberling@arboguard.com

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sales@csturfproducts.com

Green Resource LLC

Jonathan B. Annas, Owner
Robert G. Herring, Director, Sales & Marketing
P O Box 429 • 5204 Highgreen Court
Colfax, NC 27235
Phone (336) 855-6363
Phone (336) 215-5368
Fax (336) 297-9763
jannas@green-resource.com
rherring@green-resource.com

Geoponics Corp.

3415 Radio Road #105
Naples, FL 34104
Phone (239) 261-6500
Fax (239) 692-8653
Jennifer Seevers, Coastal Carolina
jseevers@GeoponicsCorp.com
Brad Driggers, Western Carolina / Upstate
bdriggers@GeoponicsCorp.com
Gantt Martin, Piedmont / Triangle
gmartin@GeoponicsCorp.com
Eddie Foust, Midlands / Upstate
edfoust@windstream.net

Greenville Turf and Tractor

Lon Fleming, President
701 Sandy Springs Road
Piedmont, SC 29673
Phone (864) 527-1050
flemingo@aol.com

J.K. Morro, Inc.

Thomas P. Porter, Owner
124 Palos Verde Drive
 Mooresville, NC 28117
Phone (704) 928-9839
Fax (704) 660-0371
tporter@jkmorro.com

Nufarm

Cam Copley, Southeast Regional Sales Manager
2104 Countrywood North Road
Raleigh, NC 27615
Phone (630) 442-4882
cam.copley@us.nufarm.com

Revels Turf and Tractor

Turner Revels, President
2217 North Main Street
Fuquay Varina, NC 27526
Phone (919) 552-5697
Toll Free (800) 849-5469
Fax (919) 557-3749
revelscharlest@revelstractor.com

Smith Turf & Irrigation

Steve Smith, President
Brent Miller, Sales Manager
Todd Armstrong, Sales Manager
P.O. Box 669388 • Charlotte, NC 28266
Phone (704) 393-8873
steve.smith@smithturf.com
brent.miller@smithturf.com
todd.armstrong@smithturf.com

Syngenta

Larry Feller, Sales Rep.
5155 River Road • Smyrna, SC 29743
Phone (843) 693-2187
larry.feller@syngenta.com
Steve Dorer, CGCS, Sales Rep.
2000 Parliament Place • Apex, NC 27502
Phone (919) 943-0360
stephen.dorer@syngenta.com

Tri-State Pump & Control, Inc.

Al Wilson, Owner/President
1162 Chastain Road • Liberty, SC 29657
Phone (864) 843-8100
Fax (864) 843-6373
awilson@tsppumps.com

Silver Club

E-Z-GO

1451 Marvin Griffin Road
Augusta, GA 30906
Dennis Brouillard - North Carolina
Phone (336) 209-1833
dbrouillard@textron.com
Mike Lehman - North & South Carolina
Phone (704) 519-5406
mlehman@textron.com
David Dudek - North Carolina
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ddudek@textron.com
Mike Nelms - South Carolina
Phone (706) 836-6081
mnelms@textron.com
Chris Dyer, Regional Sales Director - East
Phone (336) 880-0684
cdyer@textron.com

Flowtronex

Mike Bartley, Regional Sales Manager
5218 Drake Cove Road
Huntersville, NC 28078
Phone (704) 453-3876
mike.bartley@xlyeminc.com

Howard Fertilizer

Trey Warnock, Director of Sales
5426 Huntwell Commons Lane
Charlotte, NC 28226
Phone (704) 756-7175
Fax (704) 544-9214
twarnock@howardfert.com

The Andersons Turf & Specialty Group

Ray Saseen, Territory Sales Manager
4561 Lucerne Lane • Lilburn, GA 30047
Phone (404) 580-3564
Fax (770) 972-1512
ray_saseen@andersoninc.com

Hotel Accommodations



Headquarters Hotel Sheraton Myrtle Beach Convention Center Hotel

2101 North Oak Street
Myrtle Beach, SC 29577

Call 1-888-627-8203 for reservations

Use Group ID# 3978 or ask for the Carolinas Golf Course Superintendents block for any call-in reservations.

BOOK ONLINE:

<https://www.starwoodmeeting.com/Book/CGCSA2015>

RATES:

\$105 1 King or 2 Doubles + 16.27% taxes/facilities fees

\$124 Club Level, 1 King or 2 Doubles + 16.27% taxes/facilities fees

\$5 Parking Fee Per Day Per Vehicle

Cancellation Policy: 3 Days Prior to Arrival



Carolinan GCSA Conference and Show Mobile App

Conference and Show attendees will be able to download a FREE interactive mobile app to enhance your show experience. The mobile app will be available for both iOS and Android devices.

Key Features:

- Interactive tradeshow floor map to begin planning your both visits, complete with contact and location information.
- Downloads providing digital information from both exhibitors and seminar instructors.
- LIVE polls - you will be able to provide answers and see results directly from the app.
- Social Media including photo galleries and videos.

We are excited to bring a new level of value and engagement at the 2015 Carolinas GCSA Conference and Show.

Presented in Partnership with



General Information

BADGES AND ADMITTANCE

Official Carolinas GCSA badge must be worn at all Conference and Show events. Badge is included in credential mailing.

CANCELLATION POLICY

Conference and Show cancellation requests must be in writing and received by Monday, November 9, 2015 to receive a refund. A \$25 administrative fee will be charged for all full and/or partial cancellations. After this date, NO refunds will be made. Fax to 864-843-1149 or Mail to: Carolinas GCSA, PO Box 210 Liberty, SC 29657. Special refund note: If your credentials have been mailed at the time of your cancellation, you must return them to the Carolinas GCSA before any refund will be issued.

CREDENTIAL MAILING

Credential mailing will begin in October 2015. Credentials for registrations received after November 9, 2015, 4:30 PM EST, must be picked up on-site at the registration desk at the Myrtle Beach Convention Center.

NO SMOKING POLICY

All official Carolinas GCSA Conference and Show events will be smoke-free.

RECOMMENDED DRESS

The dress requirements for all Conference and Show events should either be golf casual or business casual.

- Golf Casual is defined as a nice pair of slacks and a collared or mock neck golf shirt.
- Business Casual is defined as a nice pair of slacks with a collared or mock neck shirt and a blazer or sport coat.
- Under no circumstances should denim jeans or caps be worn at Conference and Show events.

MYRTLE BEACH CONVENTION CENTER

Address of the Myrtle Beach Convention Center:
2101 North Oak Street, Myrtle Beach, SC 29577

Registration Information

REGISTRATION

There are three easy ways to register in advance for the Conference and Show. Forms must be received by **October 18, 2015**:

1. **Online** at www.carolinasgcsa.org for immediate processing and first available seating.
2. **Fax** completed registration form with credit card payment information to 864-843-1149.
3. **Mail** completed registration form with payment to:
Carolinas GCSA, PO Box 210, Liberty, SC 29657

ADVANCED REGISTRATION BENEFITS

Register in advance by **October 18, 2015** and you will receive these great advantages prior to the event:

- A reduced price for conference and show registrations
- Your badge and credentials will be mailed to you so you can go straight to seminars, educational programs and the trade show. No waiting in lines.

ON-SITE REGISTRATION

Registration will be open the following times at the Myrtle Beach Convention Center:

- Monday, Nov. 16, 11 a.m. – 6 p.m.
- Tuesday, Nov. 17, 7 a.m. – 6:30 p.m.
- Wednesday, Nov. 18, 7 a.m. – 2:30 p.m.

COMPLIMENTARY FULL CONFERENCE REGISTRATION

Complimentary registration will be offered to Carolinas GCSA Honorary members, Educators, and Golf Course Owners. Golf Course Owners should submit your registration form along with your Carolinas GCSA member superintendent.

SEMINAR SELECTIONS

Seminar descriptions can be found on pages 10 – 19. Seminars are NOT included with the full conference package. Class sizes are limited so register early. Trade show pass is NOT included with seminar registration.

FULL CONFERENCE PACKAGE

Your full conference package includes:

- General Education Session for Wednesday
- Trade Show Pass for Tuesday and Wednesday
- Wednesday Lunch

FAMILY REGISTRATION

Complimentary registration is offered to spouses/significant others and children of Carolinas GCSA members. Guests will have access to the trade show Tuesday and Wednesday.

Pesticide Credits and GCSAA Education Points



ID #	Seminar		South Carolina	North Carolina	Georgia	Tennessee	GCSAA Ed.Points.
	Monday	12:30-4 pm					
1	Optimize Soil Health to Enhance Turf Growth	1/2 day	1	1	1	3	0.3
2	Factors Affect Pesticide Fate & Behavior	1/2 day	3.5	3.5	3	3	0.3
3	Advanced Weed Management	1/2 day	3.5	3.5	3	3	0.3
4	Turning Your Golf Course Green	1/2 day	0	0	0	0	0.3
5	Management of Diseases in Bentgrass	1/2 day	3.5	3.5	3	3	0.3
6	Managing Annual Blue Weevils	1/2 day	3	3.5	3	3	0.3
7	Phosphate & Phosphite: One Letter Difference	1/2 day	0	0	0	0	0.3
	Tuesday Morning	8-11:30 am					
8	The Search for Agronomy's Holy Grail III	1/2 day	2	2.5	3	3	0.3
9	Advanced Nitrogen Fertilization	1/2 day	0	0	0	0	0.3
10	Managing Turfgrass Root Systems	1/2 day	2	2	3	3	0.3
11	Weather: Making Sense of Mother Nature	1/2 day	0	0	0	0	0.3
12	Turfgrass Microbiology	1/2 day	1	1.5	1	3	0.3
13	Assistant Supt. Increase Experience	1/2 day	0	0	0	0	0.3
14	Pesticide Management: Maximum Results	1/2 day	3.5	3.5	3	3	0.3
15	IPM Strategies for Warm Season Cultivars	1/2 day	2	1	3	3	0.3
16	Choosing & Using Native Grasses	1/2 day	0	0	3	3	0.3
17	Winter Management of Ultradwarf	1/2 day	1.5	1.5	1	3	0.3
	Tuesday Afternoon	12:30-4 pm					
18	The Straight Truth on Bentgrass	1/2 day	3.5	3.5	3	3	0.3
19	Today's Supt: Most Valuable Member	1/2 day	0	0	0	0	0.3
20	Using Wetting Agents on the Golf Course	1/2 day	2	2	2	3	0.3
21	Hazardous Duty: Basic Bunker Maintenance	1/2 day	0	0	0	0	0.3
22	Aquatic Plant Management GC Waterbodies	1/2 day	3.5*	3.5*	3*	3*	0.3
23	Golf Course Safety Program: Development	1/2 day	0	0	0	0	0.3
24	Dealing with Bugs & Crud Warm Season	1/2 day	3.5	3.5	3	3	0.3
25	Greens & Grow-Ins: Resurface or Rebuild	1/2 day	0	0	0	0	0.3
26	Tweet Like a Rock Star	1/2 day	0	0	0	0	0.3
27	Staying on Course: Helping Your Family	1/2 day	0	0	0	0	0.3
28	Zoysiagrass Management	1/2 day	2	2	3	0	0.3

*Aquatic Credits

CAROLINAS GCSA CONFERENCE AND TRADE SHOW • NOVEMBER 16-18, 2015

REGISTRATION FORM

REGISTRATION DEADLINE: OCTOBER 18, 2015

■ HOW TO REGISTER (One person per form please. May duplicate.)

There are three easy ways to register:

- **ONLINE** at www.carolinasgcsa.org
- **FAX** completed registration form with credit card payment information to 864-843-1149
- **MAIL** completed registration form with check, money order or credit card information to:
Carolinas GCSA, PO Box 210, Liberty, SC 29657

■ MAIN REGISTRATION INFORMATION

CGCSA Member # _____ Job Title _____

First Name _____ M.I. _____ Last Name _____

Home Address: PO Box or Street Address _____

City _____ SC _____ Zip _____

Club/Company Name _____

Club/Company Address: PO Box or Street Address _____

City _____ SC _____ Zip _____

Company Phone _____ Fax _____

Email address _____

Preferred Mailing Address: ☐ Home or ☐ Club/Co.

■ BADGE INFORMATION Please print the following information as you wish it to appear on your badge.

Name _____

Club/Company Name _____

City, State _____

■ SPOUSE REGISTRATION As it is to appear on badge (No additional charge. Includes Trade Show, Wednesday Fellowship Breakfast and Wednesday Lunch.)

Spouse Name _____

■ REGISTRATION OPTIONS (PLEASE CIRCLE ALL SELECTIONS.)

	Advanced Fee Prior to Oct 18		Standard Fee After Oct 18	
	Member	Non-Mem.	Member	Non-Mem.
<input type="checkbox"/> Full Conference Package	180	205	195	220

(Includes: General Education, Trade Show, Wed. Lunch, Excludes Seminars)

<input type="checkbox"/> Full Student Package	55	55	55	55
---	----	----	----	----

(Includes: General Education, Trade Show, Wed. Lunch, Excludes Seminars)

MONDAY

Golf - Choose one format	Advanced Fee Prior to Oct 18		Standard Fee After Oct 18	
	Member	Non-Mem.	Member	Non-Mem.
<input type="checkbox"/> Medal Play	100	125	115	140

HCP: _____

<input type="checkbox"/> Senior Medal Play	100	125	115	140
--	-----	-----	-----	-----

(Over 50) HCP: _____

<input type="checkbox"/> Four Ball	100	125	115	140
------------------------------------	-----	-----	-----	-----

HCP: _____ Partner: _____

<input type="checkbox"/> Captains Choice	100	125	115	140
--	-----	-----	-----	-----

HCP: _____ Partner: _____

<input type="checkbox"/> Sporting Clay	50	75	65	90
--	----	----	----	----

TUESDAY

<input type="checkbox"/> Trade Show Pass (Tues/Wed)	95	120	110	135
--	----	-----	-----	-----

WEDNESDAY

<input type="checkbox"/> Fellowship Breakfast	0	0	0	0
---	---	---	---	---

■ SEMINARS SELECTIONS Write in Seminar ID# (see page 26)

Seminar ID#	Member	Non-Mem.	Member	Non-Mem.
Mon. (12:30-4:00) _____	60	85	75	100
Tues. (8-11:30) _____	60	85	75	100
Tues. (12:30-4:00) _____	60	85	75	100

■ FEES SUMMARY TOTAL FEES: _____

■ PAYMENT INFORMATION

☐ Option 1: Check (Make Payable to CGCSA)

☐ Option 2: Credit Card

☐ Visa ☐ Mastercard ☐ Discover ☐ American Express

_____/_____
Credit Card Number Exp. Security Code

Name as it appears on Credit Card

Address as it appears on billing statement



Carolinas Golf Course Superintendents Association
P.O. Box 210
Liberty, SC 29657-0210
800-476-4272 / 864-843-1149 (Fax)
www.carolinasgcsa.org

For Office Use Only	
Class	_____
Member #	_____
Amount Pd.	_____
Entered	_____
Note	_____

Membership Application

Last Name				First Name		Middle Name		Preferred Name			
Club or Company Name				Date of Birth							
Home Mailing Information				Club or Company Mailing Information							
Home Mailing Address				Club or Company Mailing Address							
City		State		Zip		City		State		Zip	
Home Phone		Home Fax		Work Phone		Work Fax					
Job Title				Mobile Phone		Club/Co. Phone					
Preferred Mailing Location:				Work E-Mail							
Home				Club/Co.							
GCSAA Class & Number:				Applicant Signature							
The Carolinas GCSA is an Affiliate Chapter of the Golf Course Superintendents Association of America (GCSAA) and all Class A or SM Member Applicants must also be a member of GCSAA.				Years in Current Position: _____							
Employment History Prior to Current Position											
From: Mo. & Yr.		To: Mo. & Yr.		Title		Place of Employment					
See reverse for an explanation of classifications. Membership dues are good for the initial twelve months after which renewal will be on an annual basis. Dues: Class A \$180; Class SM \$180; Class C \$90; Class AF \$180; Class AS \$90; Student \$30; Class AF1 \$440; Class AF2 \$880; Class AF3 \$1,300											
I hereby apply for membership in the Carolinas Golf Course Superintendents Association and herewith attach my dues of \$_____ for one year. I understand that this application will be reviewed by a representative of the board of directors and if rejected for any reason, my dues remittance will be refunded. If accepted for membership I agree to observe and abide by the Constitution and By-laws of the association. I also affirm that I have read, understand and will abide by the association Code of Ethics on the reverse side of this application.											
Credit Card # (We accept Visa, MasterCard & Discover)				*If paying by credit, provide 3 digit v-code located on back of card in signature strip							
Name on Credit Card				Attester Signature							
Expiration Date				Attester Printed Name							
CGCSA or GCSAA Class & Member # _____											
North and South Carolina Applicants must have their application signed by a Class AA, A or SM member of the Carolinas Golf Course Superintendents Association. Out of state applicants must have their application signed by a Class AA, A or SM member of the Golf Course Superintendents Association of America.											

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(704) 927-3100

COASTAL

2407 Ocean Hwy, West
Shallotte, NC 28459
(910) 754-8474

TRIANGLE

1218 Management Way
Garner, NC 27529
(919) 779-4727

WINSTON

191 Budd Blvd
Winston-Salem, NC 27103
(336) 793-9230

www.Green-Resource.com

Green Resource





From Myrtle Beach to the Blue Ridge Mountains to Hilton Head and everywhere in the Carolinas, your local John Deere Golf distributors are proud to be part of the Carolina's GCSA Conference and Show. Stop by our booth to find out why John Deere is trusted by the best courses on Earth.



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