



## **GCSAA Seminars in San Diego**

### **Monday, February 7**

8 am – 5 pm

Golf Irrigation Auditor Learning Tour

Brian Vinchesi, President of Irrigation Consulting, Inc., Peppermill, Mass.

(1058-01) This seminar is a one-day, management level class, facilitated by the Irrigation Association and held, in part, at a local golf course. This education offering provides a unique opportunity to gain valuable information while helping prepare attendees to take the Certified Golf Irrigation Auditor Exam. Registration for the exam must be completed by Jan. 25<sup>th</sup>, 2022. Please visit the Irrigation Association [website here](#): to submit a certification application and register for the exam. After completing this course, participants will be able to: Gather appropriate irrigation water-use data and test the performance of course irrigation systems. Assess system performance, determine irrigation water requirements, and develop an appropriate irrigation schedule. Please note after the date of January 25th, anyone wanting to take the test will need to complete the Irrigation Association (IA) registration form and email it to [certification@irrigation.org](mailto:certification@irrigation.org) A \$25 late registration fee will apply. The IA exam is on Tuesday Feb. 8th, 8 a.m.-Noon.

8 am – Noon

Launching a First Green Field Trip at Your Own Golf Course

Leann Cooper, GCSAA Senior Manager, Chapter Services, Lawrence, Kan.

Jeff Gullikson, CGCS, Kalispel Golf and Country Club, Spokane, Wash.

Stephen Kealy, CGCS, Glendale Country Club, Bellevue, Wash.

David Phipps, GCSAA Northwest Regional Representative, Oregon City, Oregon

First Green is an innovative environmental & STEM education outreach program that seeks to attract young minds to environmental stewardship & connect potential future players to golf courses. Share your expertise with students. Learn to use lesson plans & other resources provided by First Green, create learning labs & host students. Use First Green to meet the community outreach requirement of Audubon International certification and demonstrate environmental stewardship efforts on your course.

1 pm – 5 pm

Learning Tour – Foley

Presented in partnership with Foley United

(1300-01) Curious to see how other facilities handle shop organization, a day in the life on the course, or even drones and how the facility uses them? Look no further than this half day educational opportunity that will all take place onsite at Bonita Golf Course. Attendees will see

how Bonita addresses common and unique challenges faced in the golf industry. As an added bonus, a hands-on Foley grinding demonstration walks through everything you need to know for reel and bedknife grinding to help you make the most informed grinder purchases. Participants will also be given an Air2G2 demonstration.

Space will be limited and registration for this learning tour will not be available onsite. Check in will begin at 12:30 p.m. and buses will depart promptly at 1:00 p.m. Please arrive on time for check in, be aware that if attendees miss the check-in deadline, alternate transportation to and from Bonita Golf Course will not be provided. Attendees are encouraged to wear walking shoes and comfortable apparel.

## **Tuesday, February 8**

Two Hour seminars

10 am – Noon

Advanced Strategies for Resistance Management

Lane Tredway, Ph.D., Sr. Technical Representative, Syngenta Professional Solutions, Zebulon, N.C.

(1258-01) Pesticide resistance poses a serious threat to our ability to manage pests. New modes of action are difficult to discover and develop, and new chemistries tend to carry a high risk for resistance. This seminar will provide an understanding of resistance with clear strategies to prevent or delay its development. Focus is on the concept of resistance risk – both for pests and control products. Emphasis is on the underlying strategy for resistance management, not on the use of specific products.

Autonomous Mower 101: Which, Why, Where, and All You Need to Know

Erwan Le cocq, Greenkeeping/Robot & Data Specialist, WINSTONGolf, Kritzow, Germany

(1260-01) Have you ever wondered what it would take to convert your course to autonomous mowing technology? Take a head-greenkeeper's journey, from creating a project from scratch, to installing the first robots. Anyone can learn something new about robot mowers. You will be able to: choose the right robot for the right situation; create a project from scratch including budgeting, installation, and a maintenance program; understand advantages and disadvantages of autonomous mower vs. conventional mower.

Best Management Practices for Water Management – The Road to Success!

Dale Hahn, CGCS, Director of Golf Course Maintenance, TPC Summerlin

Glenn Matthews CGCS, Superintendent, Visalia Country Club

Pat Gross, Consultant, Pat Gross Turf Solutions, LLC

J. Bryan Unruh, Ph.D., Professor and Associate Director, University of Florida

(1302-01) This seminar will give attendees the opportunity to discuss some of the most important water use best management practices for golf courses today. When it comes to ensuring success of the golf course (healthy turf, quality playing surfaces, efficiency, etc.),

demonstrating the superintendents' profession, and bolstering the game's image, water use is at the top of the list. It is important that every facility's BMPs properly address water use.

#### Bunkers Everything You Ever Wanted to Know and More - Advanced

Judd Duininck, Partner, Duinick Golf, Buffalo, Minn.

Jerry Lemons, CGCS, ASGCA, President and Founder, Golf Links, Inc. Old Hickory, Tenn.

Adam Moeller, USGA Agronomist, Director of Green Section Education, Liberty Corner, New Jersey

(1283-01) Expanding on the 2021 virtual session, this presentation will cover additional details on bunker renovation and construction. With course bunkers being a significant expense, this seminar allows participants to gain a better understanding of options to extend the life of this highly visible course feature. Your facility will learn what is new in bunker construction, costs, and maintenance and when different methods should be considered. Your team will take away strategies to maximize bunker performance while taking your budget into account.

#### Change Innovation: How to Build a Sustainable Culture that Benefits Everyone

Phil Helmn, MG, Leadership Speaker, Trainer, Golf Course Advisor, Freelance Sports and Turf Writer, United Kingdom

(1349-01) Change is the process of changing strategies, technology, culture, and thoughts. As the world changes, it's clear that survival is impossible without change, but unfortunately if not managed correctly, change can negatively impact everyone. Good ideas are essential in the workplace; without them creativity is non-existent. Innovation, in contrast, is about introducing something new/unique and goes beyond the idea, it's putting creative ideas into action! Teams who buy in to these concepts appreciate the support of their leader and as a result, work harder, promote engagement, and will go the extra mile on the job. The greatest benefit is finding fulfillment in day-to-day work both personally & professionally.

#### Changing Species or Cultivars – Interseeding Success

Leah Brilman, Ph.D., Director of Product Management and Technical Services, DLF-Pickseed, Halsey, Oregon

(1259-01) Discover simple fixes to improve conditions if you can't afford a full renovation. Take advantage of new cultivars and strategies to improve cultivars of all turf species to maintain them with less inputs. Discussion of examples/strategies for various species - Creeping Bentgrass, Kentucky Bluegrass and Fine Fescues in all areas. Learn how to: analyze your course to define which areas may benefit most from interseeding. Actively monitor improved conditions and golfer satisfaction.

#### Effective Team (Servant) Leadership – Leading from the Back

Don Armstrong, Agronomist/Speaker/Author/Survivor, Self – Finish YOUR Race, Fort Worth, Texas

(1301-01) There is no one-size-fits-all definition of leadership. Leaders succeed with all types of education personalities, experiences, and approaches. Effective leaders build trust and collaboration with their team members. In this presentation you will learn how to develop a

loyal, high-producing team by making a few shifts or adjustments in your leadership style. It's all about being an effective leader by leading from the back.

#### Equipment Managers: Set Yourself Apart from the Ordinary

(1303-01) Henry Heinz, Equipment and Facilities Manager, Royal Poinciana Golf, Naples Fla. Communication is the ultimate key to success as an Equipment Manager. This seminar will focus on enhancing and improving communication skills, to advance personal and professional development through leadership, and environmental stewardship. Attendees will have the opportunity to participate in open discussion and exploration of challenges, techniques, and solutions for overcoming communication barriers.

#### Find Out What It Takes to Pass the EMCP

Eric Duncanson, Equipment Manager, Pine Needles & Mid Pines Golf Clubs, Southern Pines, N.C.

Trent Manning, Equipment Manager, Ansley Golf Club, Roswell, Ga.

(1155-01) If you are a student, assistant, superintendent, or equipment manager planning to take the Equipment Management Certificate Program exam in the future, don't miss out on this seminar led by two authors of the exams. This presentation will give you an advantage with an overview of what it is going to take to prepare and pass the Equipment Management Certificate Program (EMCP) with flying colors. Join this seminar to increase your potential for success in obtaining this industry qualification.

#### Good and Bad Tree Care Practices – Do This, but Not That

John Fech, Extension Educator, University of Nebraska

(1310-01) Tree care on the golf course can be challenging; this seminar will outline the tree care practices and services you should utilize as well as the ones you should avoid. In addition to the good and bad, there are some "maybes" and "others" depending on the tree species, and location on the golf course. Other considerations as far as proximity to tees/greens, irrigation regime, fertility level, turf species, soil type, etc. will be discussed. Attendees will have the opportunity to develop a better understanding and validation of approved and unapproved tree care management practices and participate in interactive solution-oriented discussions with their peers.

#### How Much Shade is Too Much Shade?

Mike Richardson, Ph.D., Professor, Dept. of Horticulture, University of Arkansas

(1134-01) As much as 25% of all turfgrass sites are experiencing shade stress. This seminar will cover several methods that attendees can use to measure the amount of light received on various locations of your golf course. Participants will gain foundational concepts of how to: Apply scientific measurement techniques to measure light at your course, understand how much light your turf requires to function and perform, and provide data and solutions to memberships based on quantitative measures.

### Interpreting Your Golf Course Soil Test Results

Paul Cushing, Owner – Agronomist, Paul Cushing Agronomic Turfgrass Services, San Diego, Calif.  
(1309-01) This seminar is for anyone looking to develop a better understanding of how to interpret soil test results and implement programmatic changes to improve nutrient availability via improved water movement on the golf course. Attendees will learn ways to recognize the nutrients that are in deficiency or excess in soils and how to implement changes for structuring a fertility plan to best meet the golf course budget and agronomic needs.

### Managing Up and Down

John Cunningham, CGCS, Director of Agronomy, Grandfather Golf and Country Club  
Patrick Finlen, CGCS, General Manager, GCSAA Past President, The Olympic Club, San Francisco, Calif.

(1304-01) There are two very different groups that are equally important to the success of a golf course facility. This talk identifies the skills, strategies necessary, and leadership styles for a superintendent to apply when managing crew members, and the facility leaders of a golf course. Attendees will discuss the complexity of switching gears in leadership styles which are essential in keeping the golf course well maintained and satisfying the membership leaders' expectations at a facility.

### Pump Station | End User Scenarios

Greg Lush, Founder, Last Mile Worker Solutions, Parkland, Fla.

(1272-01) It's critical that superintendents can approach pump station emergencies with elevated confidence & awareness. Learn how to effectively troubleshoot, correct & prevent pump station problems to increase productivity & efficiency on the course. We'll discuss barriers, issues & troubleshooting measures including: Troubleshooting low/no flow water conditions, identifying red flags leading up to equipment failure, standards & rules to increase safety, and tips to resolve pump station & equipment.

### The Do's and Don'ts of Rebuilding Greens

David L. Doherty, CEO & Founder, International Sports Turf Research Center, Lenexa, Kan.  
Robert Oppold, Vice President of R&D, International Sports Turf Research Center, Lenexa, Kan.

(1115-01) The decisions involved with rehabilitating (repairing or rebuilding) golf course greens are complex. Don't waste your time, your budget and risk your reputation making the wrong ones. This seminar will provide superintendents with the decision-making tools they need to make the best choices for each individual green.

### Time is Money: Troubleshoot Valve-in-Head Sprinklers Efficiently as Possible

Brad Jakubowski, M.S., C.I.T., Professor, Plant Sciences, Penn State University

(1299-01) When irrigation systems on the course are not working properly, it can be frustrating, time-consuming & costly. Ensure you are making the most of your troubleshooting efforts. Learn the order of operation of how a valve-in-head sprinkler operates, then identify problems with field controllers, solenoids, pilot valves, foot valves & wiring. Learning the use of

multimeters & StationMaster® testers is key. Answer the questions: Why won't it turn on? Why does it stay on? Why does it seep?

#### Topdressing Sand

James A. Murphy, Ph.D., Extension Specialist, Rutgers, The State University of New Jersey, New Brunswick, N.J.

(1282-01) Education is key when it comes to topdressing sand. Let's talk about practices at your facility & assess potential threats to protect your turf. We'll cover principles & techniques to modify your topdressing & cultivation program, ways to assess your turf & evaluate topdressing/cultivation practices to target areas for improvement. Key topics that will be covered include: Principles behind managing the edaphic profile of turf, Important characteristics of sand for thatch modification, and techniques to ensure proper deployment.

#### Warm-Season Turf Insect Management Made Simple

Rick L. Brandenburg, Ph.D., Professor of Entomology, North Carolina State University

(1308-01) This seminar will be fast-paced and utilize a global scope of case studies for participants discuss and review to take home a focused vision for simplifying their warm-season insect management practices. Topics will include all aspects of warm season insect pest management from identification, life cycles, cultural practices, pesticide selection and use, monitoring and forecasting and the development of a cost effective and environmentally sound program.

2 hour seminars

1 pm – 3 pm

#### Core Strengths for the Assistant

Andrew Wilson, Director of Agronomy, Bethpage State Park, Farmingdale, N.Y.

(1271-01) GCSAA has developed core competencies for Golf Course

Superintendents. Developing these competencies strengthens and stabilizes your skills for your career development and ultimately helps you improve your ability to produce results desired by golfers and the goals of a particular facility. Andrew Wilson will cover these competencies and how they are used for short, and long-term planning in reflecting on his experiences preparing for the 2019 PGA Championship.

#### Training for the Ages: Creating an Effective Multi-Generation Team

Lori A. Hoffner, Professional Speaker, Trainer and Consultant, Supporting CommUnity, Inc. Littleton, Colo.

(1267-01) The approach that each person uses on the job and how they perform certain work tasks are deeply rooted in generational experiences and values. As the mass exodus of the baby-boomer generation leaders continues to happen, the up-and-coming millennial generation pushes in for their chance at the helm, and Gen Z nipping at their heels, there is a great need to find a positive way for the transition to happen. In this seminar, Lori will help you learn ways to blend the different generations into a cohesive and positive team as well as creating an environment of cooperation that meets the needs of staff regardless of their age. You will identify ways to encourage a positive internal culture that that gets projected externally to the customers.

1 hour and 45 minute seminars

1 pm – 2:45 pm

Now More Managing, Native and Out-of-Play Areas with Best Management Practices to Ensure Success

Matthew Ceplo, CGCS, Superintendent, Rockland Country Club, Sparkill, N.Y.

Jay Randolph, CGCS, Superintendent, Ben Geren Golf Course, Fort Smith, Ark.

Kyle Sweet, CGCS, Superintendent, The Sanctuary Golf Club, Sanibel, Fla.

J. Bryan Unruh, Ph.D., Professor, Extension Turf Specialist, University of Fla.

(1312-01) Planning, developing, and maintaining out of play and native/naturalized Areas can be a challenge but proper execution is of utmost importance within the golf environment.

Learn more about GCSAA's Best Management Practices to ensure your course is utilizing the proper practices to ensure success. Attendees will have the opportunity to hear from three successful superintendents with native areas from private and public courses alike. This will cover subject matter including science based and successful BMPs for native or out of play areas, implementing practices and maintaining quality native areas with collaboration efforts, and educating members or golfers while promoting the valuable greenspace golf courses provide.

3:15 pm – 5 pm

Now More Protect, Connect, Maintain, Sustain: How Best Management Practices Improve your Game

Ken Benoit, CGCS, President, Eco Turf Consulting, Bedford, N.Y.

Kurtis Wolford, Class A, Golf Course Superintendent, Woodbridge Golf & Country Club, Folsom, Calif.

(1313-01) Instructors Ken Benoit, CGCS, and Kurtis Wolford, Class A, dispel the myth that Best Management Practices (BMPs) limit and restrict superintendents and show attendees that the opposite is true during this seminar. Using a four-pillar approach, attendees will be shown, through first-hand instructor experiences, how to use BMPs to improve turf health, reduce budget expenditures, and enhance community relationships all while preserving and protecting water resources. There will be open discussion of why and how the future of golf depends on superintendents aligning their facilities with golf BMPs.

3 Hour seminars

1 pm – 4 pm

Preparing to Become a Certified Golf Course Superintendent

Stephanie Confer, GCSAA Certification Manager, Lawrence, Kan.

(358-01) Are you a golf course superintendent? If you answered yes and want to achieve certification as part of a personal or professional goal, then this seminar is for you. This seminar will get you started on the right track by reviewing the process and eligibility

requirements. Participants will better understand written exam content, how to complete the communications and leadership attesting and expectations during the course/facility evaluation.

#### Understanding Robotic Programming

Cory Phillips, Equipment Manager, Golf Club of Georgia and Horseshoe Bend Country Club, Alpharetta Ga.

JR Wilson, Equipment Manager, Noyac Golf Club, Sag Harbor, N.Y.

(1262-01) Don't fear the future, embrace & prepare for automated equipment by learning the language now. We'll help technicians better understand how to troubleshoot & diagnose problems of the automated equipment of the future. Topics include the fundamentals of robotic programming, coding. You'll get a better understanding of: Coding language in programming & robotic functions to troubleshoot & diagnose problems, how GPS is used in robotics & different languages for controller communications.

#### Half day seminars

1 pm – 5 pm

#### Advanced Weed Management of Warm-Season and Overseeded Turfgrasses

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

Fred Yelverton, Ph.D., Professor of Crop Science, North Carolina State University

(1321-01) Managing weeds and plant growth is par for the course for all superintendents. This seminar will provide a comprehensive weed management overview and breakdown of plant growth regulator usage in warm-season and overseeded turfgrasses. The basic understanding of weed biology, ecology, and life cycles of turfgrass weeds is just the tip of the iceberg, along with the cause, prevention, and management of herbicide resistant populations. A portion of this seminar will focus on types of resistances and tips for identification and management. Holistic pre-and post-emergence herbicides programs will be constructed along with implementing known management practices to reduce weed pressures. Learn numerous tricks-of-the-weed-control-trade from two internationally known experts.

#### Annual Bluegrass Weevil Master Class: Take the evil out of Weevil

Steven McDonald, Agronomist, Turfgrass Disease Solutions, Spring City, Pa.

Ben McGraw, Ph.D., Associate Professor, Turfgrass Entomology, Pennsylvania State University

(1317-01) The Annual Bluegrass Weevil (ABW) is consistently ranked as the #1 single insect pest problem on golf courses in the eastern U.S. and Canada, and it has recently expanded its region of impact with new cases identified in regions not historically known for having this issue.

Attend this seminar to learn about the history, biology, damage patterns, and discuss control options to utilize for specific locations and implement at your course.

#### Building a Warm-Season Weed Control Program for Your Golf Course

Jim Brosnan, Ph.D., Professor, Department of Plant Sciences, University of Tennessee

Gerald Henry, Ph.D., Professor, Department of Crop and Soil Sciences, University of Georgia

(1325-01) Developing an effective weed control program is a skill that has become increasingly important for golf course superintendents to be successful. This seminar will assist attendees in



thinking programmatically and explain various practices to build an effective warm-season weed control program at their facility. Attendees will develop a better understanding of: timely herbicide applications with appropriate cultural practices to minimize weed infestations, benefits, and capability of rotating herbicide modes of action over time to prevent resistance, strengths and weakness of the newest herbicides entering the marketplace and how they fit into weed control programs.

#### Designing, Breeding, Testing, & Implementing Reduced-Input Turfgrasses

Gregg Munshaw, Ph.D., Director of Agronomy, Pratum Seed Companies, Salem, Oregon

Adam Russell, Vice President, MVP Genetics, Mountain View Seeds, Salem, Oregon

(1316-01) What does “reduced-input” really mean anyway? It’s not just a set of sustainability buzzwords. In 4 parts, we’ll break down important differences in a measurable, successful reduced-input program: Understanding what separates cultivars, university & private breeding, and testing from generic marketing, while teaching cost-effective planting and construction methods for incorporation of reduced-inputs grasses into your golf courses and landscapes.

#### Do You Have a People Plan?

John Cunningham, CGCS, General Manager, Aronimink Golf Club, Newtown Square, Pa.

Jodie Cunningham, Optimus Talent Partners LLC, Philadelphia, Pa.

(1322-01) The success of a golf course facility depends on its’ people – the RIGHT people. Recruitment and selection are the foundation of your club’s success. In fact, surveys show that 55%-65% of your operational budget is dedicated to labor. Are you spending those dollars wisely? In this seminar we will discuss creating a people strategy, building a successful recruitment plan, and review effective interviewing skills and creative recruitment techniques.

#### How to Prepare for a Golf Course Renovation (Basic)

Darryl Bartlett, GCBA Certified Builder NMP Golf Construction, Williston, VT

Jason Sloan, GCBA Certified Builder Frontier Golf, Jones Mills, PA

(1241-01) This presentation is aimed to assist Superintendents and Assistant Superintendents in preparing for a golf course renovation project and covers everything from what needs to be done prior to the renovation to ways to make their project affordable while achieving the goals of the project. We will present case studies throughout the presentation to apply the knowledge to actual projects. This seminar is intended for Superintendents and Assistant Superintendents with a basic understanding of golf course renovation and little to no renovation or construction experience while serving as a superintendent or assistant superintendent.

#### Let’s Talk Pesticides: Do Natural Alternatives Work?

Travis Gannon, Ph.D., Assistant Professor, North Carolina State University

Joseph Roberts, Ph.D., Assistant Professor and Extension Specialist, Turfgrass Pathology, Clemson

(1324-01) As environmental stewards in our profession we always attempt to limit pests in safe and effective manners. Are you confident that your pest management strategies are as

effective and safe as possible? Attend this seminar to be sure! We will also explore communication strategies to address the public concerns surrounding the use of pesticide fate in the environment. Additionally, we will provide a breakdown of reduced risk chemistries, biological controls, how they work and promising new research to enhance our ability to use these tools in an environmentally conscious manner on our golf courses in the future.

Lograr césped de alta calidad en un presupuesto con restricciones de agua

Manuel Roman Chavarria, Ph.D., Research Associate, University of Florida

Marco Schiavon, Ph.D., Assistant Professor, Institute of Food and Agricultural Sciences - Environmental Horticulture Department, University of Florida

(1315-01) El riego es la práctica de mantenimiento más importante para mantener vivo el césped. Sin embargo, con las restricciones de agua que se aplican progresivamente con el aumento de los costos del agua, es posible que no se pueda alcanzar un riego suficiente durante la temporada de crecimiento. Este seminario proporcionará una mejor comprensión de los pros y los contras, así como de los factores sociales, regulatorios y presupuestarios que conducen a un mayor uso de agua de riego de baja calidad en los campos de golf. Los asistentes estarán mejor preparados para tomar decisiones agronómicamente sólidas cuando se trate de restricciones de agua y discutir especies apropiadas de césped, cultivares, prácticas de riego deficitaria y fertilizantes para emplear y lograr césped de alta calidad.

Physical or Chemical Problems in Your Greens? Let's Remediate

Dan Dinelli, CGCS, Golf Course Superintendent, North Shore Country Club, Glenview, Ill.

Bob Oppold, Vice President of R&D, International Sports Turf Research Center, Lenexa, Kan.

(1319-01) This seminar will illustrate the cause and effect of high Ph water application over time and the resultant effects of Ph on solid chemistry, nutrients, and soil physical properties, and how they all impact turf health. Attendees will review and learn from real-world case studies where extreme turf loss occurred and see how the chemical problem was identified, remedial program methods, and post remediation success.

Sprayer Technology

Jim Nedin, Jim Nedin Consulting Services, York, Pa.

(1320-01) It can be hard to keep track of the never-ending changes in technology systems of today. If you have the desire to get caught up to speed or just simply expand your knowledge regarding the most current sprayer technology systems being used in the turf industry today, then this seminar is for you. Topics and discussion will include controller and monitor programming, calibration, nozzle types and sizing, sprayer system design, component troubleshooting, maintenance, winterization, environmental safety, and GPS sprayer technology.

Ten Years of Experience in Four Hours

Bud White, Golf Course Consultant, Bud White Golf Solutions, Granbury, Texas

(1265-01) Assistants desire to grow in experience/knowledge as rapidly as possible. Their will for growth can be dictated by a current employer, the level of course maintenance & budget. Many

experience exposures are by chance; we'll expose you to several experiences you might miss. We'll discuss chemicals, fertility, cultural programs & execution. Learn how to: Perform & interpret soil, water & tissue tests, build a better pesticide & fertilizer program, and troubleshoot many unique problems.

#### Trends and Advances in Modern Golf Course Construction

David Hunsucker, Owner & Chief Pilot, The Drone Co.-RVA, Richmond, Va.

Matthew Lohmann, Project Manager, Wadsworth Golf Construction Company, Plainfield, Ill.

(1323-01) Leading industry GCBAAs Certified Builder and GCBAAs Member discuss new trends and equipment in the golf course construction world. You will learn about drone mapping, GPS advancements, state of the art equipment features, as well as many other innovations. These instructors join to tell you what works, issues they have experienced, and other techniques that offer efficiencies and help maximize your bottom line. This presentation will also cover Master Planning through As-Built Documentation to assist with an accurate starting point for bids and implementation of your course vision, designed and built on the foundation of scientific technologies.

### **Wednesday, February 9**

Half day seminars

8 am – Noon

#### Advanced Management of Ultradwarf Bermudagrass Golf Greens

Bert McCarty, Ph.D., Professor, Turfgrass/Golf Course, Clemson University

Bruce Martin, Ph.D., Emeritus Professor, Turfgrass Pathology, Soil and Plant Sciences, Clemson University

(458-01) The recent conversion by many golf courses to ultradwarf bermudagrass cultivars for golf greens means creating a completely new plan for successful management while considering diseases and nematode infection and infestations factors that can significantly limit success. Attendees will walk away with a better understanding of the agronomic and physiological management needs of ultradwarf bermudagrass and how to identify potentially devastating root, crown diseases and nematode problems. Topics include: construction and cultivar considerations, sunlight requirements, fertility programs, thatch/mat/OM management options, watering strategies, winter color plus spring transition trends, preventing winter damage, diseases of importance, nematode diagnostic guidelines, disease and nematode management strategies, and holistic case studies at various budgeted courses.

#### Communicating with Confidence, Clarity, and Credibility - Part 2: Understanding Your Communication Style

Laura Katen, International Author, Keynote Speaker, Communication Specialist, and Founder/President of KATEN CONSULTING, New York, N.Y.

Ron Katen, Vice President, KATEN CONSULTING, New York, N.Y.

(1314-01) If you've already taken KATEN's *Key Success Strategies - Communicating with Confidence, Clarity, and Credibility* seminar taught at past GIS shows, you will find the answers to "what's next" in this seminar. This course provides practical strategies for becoming an effective communicator by increasing your awareness to your own communication style or

"language," strengths, and undermining tendencies - all by completing a formal assessment. This course will also help you to better understand the styles of those you work with professionally and interact with personally. Build rapport, reduce miscommunication, influence, and ascertain buy-in, achieve greater impact and superior results. It's the perfect seminar if you want to get to the next level of success or lead a team!

#### Golf Course Irrigation Renovation – Making the Decision

Brian Vinchesi, President of Irrigation Consulting, Inc., Peppermill, Mass.

(1306-01) The presentation will focus on what superintendents need to know about making the decision to start the process of planning a golf course irrigation renovation through the construction process. Superintendents will learn what the demands will be of them in convincing the club to proceed with an irrigation renovation, planning, and being involved in the construction/renovation project/process. They will learn key issues that could arise during the process from start to finish and how to see them before they occur. They will learn how to act as the golf course's key representative to the irrigation consultant, golf course contractor, and irrigation supplier. Since the superintendent of the course is often the most involved employee of the golf course in the process and tasked with making sure the consultant and contractor are successfully executing the construction/renovation. The information presented will allow the attendees to be able to better understand what to expect during their next golf course irrigation renovation/construction project.

#### How to Prepare for a Golf Course Renovation (Advanced)

Darryl Bartlett, GCBA Certified Builder NMP Golf Construction, Williston, VT

Jason Sloan, GCBA Certified Builder Frontier Golf, Jones Mills, PA

(1305-01) This presentation is aimed to assist Superintendents and Assistant Superintendents in preparing for a golf course renovation project and covers everything from what needs to be done prior to the renovation to ways to make their project affordable while achieving the goals of the project. We will present case studies throughout the presentation to apply the knowledge to actual projects. This seminar is intended for Superintendents and Assistant Superintendents who have considerable renovation and/or construction knowledge and who have served as the Superintendent or Assistant Superintendent at a course that underwent a renovation and/or construction project or who have taken the Basic Understanding seminar or the 2021 virtual seminar on this topic. This seminar will delve deeper into the details of the superintendent's role in the planning of a project from conception to bidding and up to the construction start date.

#### Managing Fine Turf, Is Less More?

Alan FitzGerald, MG, Superintendent, LedgeRock Golf Club, Mohnton, Pa.

Jake Straub, VP of Proprietary Products NovusAg, Fort Collins, Colo.

(1326-01) There are many ways superintendents approach growing turf. Over the last 20 years with the increasing demands for higher quality turf, the basics for growing successful turf has somewhat homogenized. While we have become more technically advanced - be it with hardware or through improvements in chemical and fertilizer products and better research, the question remains, "have turf managers strayed away from the basics, and created more work

for themselves?” This presentation challenges the attendee to think more about their turf management practices and to gain a clearer understanding the interactions of each input between the turf and the soil. The end goal of this seminar is to provide solutions to reduce expenses and have less environmental impact at your facility.

#### So You’ve Got Earthworms...

Paige Boyle, Doctoral Graduate Student, Utah State University

Ben McGraw, Ph.D., Associate Professor, Turfgrass Entomology, Pennsylvania State University (1171-01) Earthworms are considered beneficial organisms in most cropping systems, as they aerate soil, decompose organic matter & thatch & increase the availability of nutrients for plant uptake. In turf, though, earthworms often become pests. Managing these organisms is difficult as earthworms remain one of the most poorly understood soil macrofauna. We will discuss: Basic earthworm biology, and effects of different chemical products and cultural practices on earthworms.

#### The Poa Panel

Jay McCurdy, Ph.D., Associate Professor, Mississippi State University

Alec Kowalewski, Ph.D., Professor, Oregon State University

Shawn Askew, Ph.D., Assistant Professor, Virginia Tech

Jim Brosnan, Ph.D., Professor, Department of Plant Sciences, University of Tennessee

Matthew Elmore, Ph.D., Assistant Extension Specialist, Rutgers University

Travis Gannon, Ph.D., Assistant Professor, North Carolina State University

Rebecca Grubbs, Ph.D., Assistant Professor and Turfgrass Extension Specialist, Texas A&M University

Clint Mattox, Ph.D., Research Associate, Oregon State University

Scott McElroy, Ph.D., Professor, Auburn University

John Kaminski Ph.D., Associate Professor, Turfgrass Science, Pennsylvania State University

Aaron J. Patton, Ph.D., Professor, Turfgrass Extension Specialist, Purdue University

Kaiyuan Tang, Ph.D. Student, Agronomy, Pennsylvania State University

J. Bryan Unruh, Ph.D., Professor, Extension Turf Specialist, University of Fla.

(1334-01) *Poa annua* can be a troublesome weed or desired turfgrass species. This seminar is an open discussion from experts who will share results of the USDA-NIFA Specialty Crops Research Initiative being conducted by a national team of scientists. Our panel will discuss findings of more than 1,400 samples collected throughout the United States. Ultimately you will learn how to leverage *Poa annua*’s unique biology to your advantage.

#### Understanding Final Tier 4

Kreg Kinney, Territory Customer Support Manager, Deere & Co – Ag & Turf Eastern Region  
Cort Rash, Revels Tractor Co. Inc., Fuquay Varina, N.C.

(1327-01) Final Tier 4 is here and it’s here to stay. Now it’s up to equipment managers to understand what Final Tier 4 is, how the technology works, what is normal, and how to troubleshoot the technology is failing. This presentation will acquaint equipment managers

with FT4 theory, operation, troubleshooting, maintenance, and best practices to maximize machine uptime.

1 pm – 5 pm

#### Cutting Edge Disease Management for Cool-Season Grasses

Bruce Clarke, Ph.D., Extension Specialist in Turfgrass Pathology, Rutgers University

Steven McDonald, Agronomist, Turfgrass Disease Solutions, Spring City, Pa.

(1331-01) Gain in-depth information for identifying and controlling important turfgrass diseases of cool-season grasses. Topics include: disease profiling, characteristics of pathogens, host reactions, and environmental considerations, as well as cultural and chemical control measures. The goal of this seminar is to leave attendees with an understanding of how to achieve optimal disease control, turf quality, and playability while reducing fungicide inputs whenever possible.

#### Data-Driven Irrigation Management

Ben Wherley, Ph.D., Professor, Dept. of Soil & Crop Science, Texas A&M University

Joseph Young, Ph.D., Associate Professor, Dept. of Plant and Soil Sciences, Texas Tech University

(1128-01) In the past, when water availability and costs were not as great a concern as they are today, you could afford to rely more on 'feel'. Now, real-time weather data, soil moisture sensors, and site-specific management equipment offer resources and tools to manage water more effectively. You will learn: practical approaches for use of weather-, soil moisture -, and spectral-based technologies, and spatial variability of soil physical properties affecting irrigation management decisions on fairways.

#### Encontrando el Balance

Damon Di Giorgio, Director of Agronomy, Playa Grande Golf & Ocean Club, Cabrera, Dominican Republic

(1333-01) Hablemos sobre el trabajo en la industria del golf, buscando un enfoque equilibrado para establecer las expectativas de los golfistas y los factores agronómicos en el campo de golf. No queremos subestimar o sobrevalorar nuestras capacidades, pero al mismo tiempo necesitamos cuantificar lo que podemos o no controlar. El uso de métricas es una manera fácil para que todos comprendan lo que se necesita para mantener las condiciones del campo y cumplir con las expectativas. También es importante comunicar esto a todo el público, y saber cuándo ajustar el mensaje para evitar las barreras del idioma en nuestro trabajo.

#### Greens Construction – Solutions for any Budget. From Top to Bottom and What You Need to Know

Dave Linngren, Landscapes Unlimited, LLC., Indio, Calif.

Kyle Trzaskos, McDonald & Sons, Inc., Jessup, Md.

(1293-01) Whether making a repair, improving your playing conditions, or starting from scratch, there are numerous solutions when it comes to your golf greens. This seminar will show you examples of the different types of greens construction methods, as well as creative ways golf course construction companies can create long lasting results that can fit into your budget.

#### Soil Physical Properties - Balancing Oxygen and Water

David L. Doherty, CEO & Founder, International Sports Turf Research Center, Lenexa, Kan.

Bob Oppold, Vice President of R&D, International Sports Turf Research Center, Lenexa, Kan.

(1335-01) Explore the basics of physical properties (solids and pores) & organic matter, and the importance of oxygen in the root zones. Attendees will learn to: Quantify the physical properties optimal for each green (depending on the microclimate and turf type), Evaluate effects of aerification and top-dressing roots, and lastly, understand the value of oxygen and how to maintain adequate levels of it in root zones.

Top Ten Communication Strategies with Laura Katen!

Laura Katen, International Author, Keynote Speaker, Communication Specialist, and Founder/President of KATEN CONSULTING, New York, N.Y.

Ron Katen, Vice President, KATEN CONSULTING, New York, N.Y.

(1332-01) The perception that other people have of you - and how you communicate - are critical to your professional success! If you want to maximize your success and know that you are doing everything possible to distinguish yourself and move to the next level, then Top Ten Communication Strategies with Laura Katen! is for you! This seminar will highlight strategies around the words you choose body language you use, actions you take, and decisions you make. Don't miss out on learning 10 of the most practical, relevant, and timely strategies that you can immediately put into action to help progress your success whether in-person or virtually!

3 hour seminars

9 am – Noon

Assistant Superintendent Workshop

Chris Carson, Golf Course Superintendent, Echo Lake Country Club, Westfield, N.J.

(1328-01) There is a lot of competition for superintendent jobs, and assistant superintendent advancement. The candidates who get through career obstacles and over the finish lines are the ones who properly and thoroughly prepare for every step coming their way. This seminar will provide insight, specific techniques, and overall encouragement for the early career job seeker, and help raise your personal professional level.

Topdressing 101: Organic Matter Management for Cool Season Putting Greens

Roch Gaussoin, Ph.D., Professor, Agronomy and Horticulture, University of Nebraska-Lincoln

(1182-01) One of the more common practices used to provide optimal playing conditions on putting greens is sand topdressing. Beyond playability, the agronomic benefits of topdressing are plentiful. The layer of thatch is often problematic to plant health. We'll focus on strategies proven effective in managing organic matter accumulation on greens. Develop a better understanding of topdressing advantages/pitfalls, minimize surface & play disruption, and evaluate & apply research-based topdressing strategies.

## Two Hour Seminars

10 am – Noon

### It IS who you know! Networking 101 for Introverts

Bill Maynard, CGCS, Commercial Sales Manager/Branch Manager, GCSAA Past President, MTI Distributing Inc., St. Louis, Mo.

Carol D. Rau PHR., Career Expert & Speaker, Lawrence, Kan.

(1251-01) You don't have to be the life of the party to succeed in networking! Learn how to approach networking as learning individual skills to have meaningful conversations. Building relationships is not an extra task; it is at the heart of all we do. You'll learn how by diving into: Interpersonal skills, learning how to define & articulate your career goals, boost confidence, develop a positive approach & making the most of social gatherings, and hear Bill & Carol's Top 5 Tips for successful virtual networking.

### Not so Shoddy Shop Health

Cory Phillips, Equipment Manager, Golf Club of Georgia and Horseshoe Bend Country Club, Alpharetta Ga.

(1249-01) Working in a shop can get hectic when much of your workday comes to you unanticipated. Understand the everyday tasks EMs need to perform as technicians while also considering the practices & the long-term risks that could come with them. Topics include Incorporating daily practices to complete tasks & improve maintenance duties, techniques & ways to protect your skin; it's just as important inside the shop as outside, and tips to ensure safety first in shop daily practices.

### Steer Your Team to Success with Google Drive (Fundamentals)

Brian Bressler, Equipment Manager, Medinah Country Club, Medinah, Ill.

Trent Manning, Equipment Manager, Ansley Golf Club, Roswell, Ga.

(1329-01) Google Drive is a free online tool that can streamline communication and allow you to ditch the clipboard in your facility. This seminar will provide an introductory and hands-on opportunity to utilize Google Drive tools in real-time with one-on-one instructor assistance while building Google Drive sheets and utilizing the tools that can benefit your facility and increase efficiency in record keeping processes and organization. \*If you already have a basic understanding and know how to set up sheets, create folders, and forms then you may consider attending the "Advanced" Drive seminar to maximize your learning opportunity. Attendees will need to have access to a G-mail account, and bring a laptop, or tablet to have the full capability to participate in this seminar onsite at show.

### The Best Story Ever Told: YOURS! (Intro to Public Speaking)

Delphine Tseng, President, Landseer Communications and Consulting, Farmingdale N.Y.

(1311-01) Join this interactive seminar to learn some new tips on how to communicate effectively across all different audiences and situations, from interviews, town halls, lobby days, to greens committee meetings. Public speaking and the ability to articulate an engaging story is a sought-after skill in any industry. Attendees will walk away with enhanced skills to communicate effectively in any professional situation and across all audiences.



#### Essential Communication for the Assistant Superintendent

Nick Janovich, General Manager, Green Velvet, Columbus, Ohio

(1253-01) Exceptional communication skills in the modern business world are vital— especially for assistant superintendents looking to excel or further their golf course management careers. This seminar will focus on three elements to enhance assistants' skills. First, you'll learn how to better utilize your strengths to effectively communicate in various situations. Next, you'll learn communication strategies for situations prone to conflict. Lastly, the seminar will explore the difference between the message you "think" you delivered and the message that was "received" by your target audience. You'll leave this seminar with three specific communication tools to take back to your facility and immediately implement with your crew, superintendent, and stakeholders.

#### Steer Your Team to Success with Google Drive (Advanced)

Brian Bressler, Equipment Manager, Medinah Country Club, Medinah, Ill.

Trent Manning, Equipment Manager, Ansley Golf Club, Roswell, Ga.

(1330-01) This seminar is for users who know the basics of Google Drive and would like to build on those skills by exploring the advanced functions and set-up of Google Drive tools. Multiple tools and functionalities will be explored from creating a job board for your team, to customization of various Drives, Sheets, and Forms for tracking equipment usage, status, repair requests, parts orders, grinding logs, and more to streamline communications at your facility. Attendees will need to access their G-Mail account, and bring a laptop, or tablet to have the full capability to participate in this seminar onsite at show.

### **Thursday, February 10**

Half day seminars

8 am – Noon

#### Business Strategies for Every Golf Course Superintendent

Michael D. Vogt, CGCS, St. Charles, Mo.

(1162-01) To be a business-minded golf course superintendent, you don't have to reinvent the wheel, we can learn what many other businesses already embrace. Change up your current conventional methods when planning and executing a specific tactical and strategic goal-oriented golf business plan. You'll learn eight basic theories and techniques to revitalize your golf course management business into a high-performance organization.

#### Fungicide Action and Turf Disease Control

Richard Latin, Ph.D., Professor of Plant Pathology, Purdue University

(574-01) This seminar offers real life scenarios to explain how and why fungicides work, and why they may not. Attendees will gain an understanding of fungicides to make better disease control decisions, and how to communicate chemical control issues with administrators, staff, patrons, and the public. Although this seminar will not focus on lists of diseases and fungicides, questions about products for turf disease control will be welcomed and addressed. Topics

include: Fungicide movement in turf, mode of action, resistance, and factors affecting fungicide performance.

#### Golf Course Pesticide Application Optimization Practices and Tips!

Travis Gannon, Ph.D., Associate Professor, North Carolina State University

(1159-01) Pesticides are one component of comprehensive pest management programs, and it's imperative for land managers to understand how to optimize without adversely affecting environmental health. Attendees will learn about the best management practices for increasing pest control while minimizing off-target movement and injury on their course by developing a better understanding of the biological and chemical attributes of pesticides after application. This seminar will provide education for attendees to devise and implement best management practices for pesticide use on their golf course facility to reduce pesticide inputs, increase fiscal savings, and reduce environmental footprints.

#### Golf Course Safety, Security and Risk Management

Mike Hurdzan, Ph.D., Golf Course Architect, Hurdzan Design, Columbus, Ohio

(1279-01) Golf course safety, security and risk management are important factors in managing a successful facility; education is key. Owners & employees learn the hard way when dealing with urgent & dangerous situations. Don't be one of those cases - get the tools you need to adapt to continually assess workplace hazards, risks. Gain an understanding of: Legal obligations of "duty to protect", Leadership skills to increase safety/productivity/morale, and practical & applicable ways to reduce liabilities.

#### How to Survive and Thrive at Your Club

Tim Barrier, CGCS, Consultant, Tim Barrier and Associates, Oceanside, Calif.

Mark Woodward, CGCS, Consultant, Mark Woodward and Associates, Mesa, Ariz.

(1338-01) Are you "green" to the turfgrass industry? Assistant Superintendents and Superintendents just starting out or transitioning into their first fulltime position at a golf course will want to join this seminar as we will discuss the tactics and strategies required for long-term success in the environment of golf club management. Attendees will discuss personnel management, and necessary communication skills for successful professional interactions with club leadership, management, and ownership.

#### Precision Turfgrass Management: Targeted Applications Edition

David McCall, Ph.D., Assistant Professor, Extension Specialist of Turfgrass Pathology, Virginia Tech

Chase Straw, Ph.D., Assistant Professor Turfgrass Science, Texas A&M University

(1337-01) Turfgrass systems aren't uniform, so why do we manage them as if they are? The answer is because a "blanket" management approach is safer and more predictable, however this can lead to unnecessary uses of resources that could be applied elsewhere. This seminar will introduce attendees to precision turfgrass management approaches and strategies for more effective use of water, fertility, pesticides, and labor for your golf course.

### The Business of Golf – A Superintendent's Guide

Henry B. DeLozier, Principal, Global Golf Advisors, Phoenix, Ariz.

(571-01) The superintendent is responsible for the most valuable assets on the balance sheet. To maximize the value that you bring to the facility, you must be able to comprehend the big picture of the business model at your facility. You will: Understand basics of how each mgmt. area impacts the bottom line, appreciate the role you play in the overall team. Be able to identify how & where to focus energy to improve the economic value of your facility and understand the entire facility budget.

### Understanding Mowing Technology, Quality of Cut, and After Cut Appearance Issues

Jim Nedin, Jim Nedin Consulting Services, York, Pa.

Greg Turner, Sales Manager, Foley United, River Falls Wisc.

(1137-01) Turfgrass professionals understand just how much the quality of cut affects the quality of turf. This seminar will explore the vital relationships between reel mower applications, quality of cut and after cut appearance. Attendees will have the opportunity to participate in small-group seminars with Q&A from industry experts focusing on how to properly identify and resolve quality of cut and after cut appearance issues.

### Water Movement in Soils and Soil Surfactants – Science not Spin

Stanley Kostka, Ph.D., Visiting Scholar, Pennsylvania State University – Berks Campus, Reading, Pa.

Mike Fidanza, Ph.D., Professor Plant and Soil Sciences, Pennsylvania State University – Berks Campus, Reading, Pa.

(1197-01) In the U.S. golf and sports turf markets there are approximately 200 soil surfactants available in the green industry. Turf practitioners are bombarded by product claims on water movement in soil and effects on turfgrass management practices. Products claim to push, pull, or drain water, or strip hydrophobic coatings from soil particles. Is this factual? We'll review product formulations, clarify what soil surfactants can do so you can make informed decisions. Learn: differences between the soil surfactant chemical classes and their impacts on plants/soil biology/soils in the rootzone, utilizing soil surfactants for efficient water management, and the why, how, and when to apply soil surfactants.

### Half day seminars

1 pm – 5 pm

### Effects of Climate Change on Turfgrass Management and Pests

Jim Kerns, Ph.D., Professor of Entomology and Plant Pathology, North Carolina State University

Fred Yelverton, Ph.D., Professor of Crop Science, North Carolina State University

(1339-01) This seminar will expose the latest research regarding climate change and the current & future impacts on turfgrass management. While majority of national discussions focus on sea-level rise and tidal flooding, this discussion will tune focus to how the turfgrass management and industry is and will be effected by Green House Gasses (GHG), CO<sub>2</sub>, nitrous oxides produced from the denitrification process and the effects on plants, turfgrass and pests. These trends are likely to continue for the indefinite future, and this seminar will provide

attendees with a better understanding of climate change and what it means for our industry as whole.

#### Fact, Myth or Legend - Soil and Water Edition

Beth Guertal, Ph.D., Professor, Agronomy & Soils, Auburn University

Glen Obear, Director of Innovation, Tria Global Solutions, Crystal Lake, Ill.

(1124-01) You have heard at least one of many fertility statements - "Apply potassium to help your turf get through stress..." or "Gypsum is the best treatment for compacted soils..." but do these statements have science to support them? We'll run thru fertility myths vs. facts/research. You'll learn & discuss: Methods for selecting fertilizer nutrients to improve efficiency., evaluating product claims vs. facts, and identifying research resources to aid in product selection & fertilizer practices supported by facts.

#### Green Renovation and Grow-In: Rebuild or Resurface

Bud White, Golf Course Consultant, Bud White Golf Solutions, Granbury, Texas

(1048-01) Scientifically evaluate the need for rebuilding/resurfacing greens, address the pros & cons of each alternative for any given course. Modify techniques to seamlessly tie collars & surrounds back to renovation areas and efficiently grow-in new turf areas. You'll hear how to: Evaluate current green construction, select the best renovation plan, and ensure correct sand selection is made for resurfacing. As well as guarantee the best construction details are used & carry out the most efficient grow-in.

#### Low Maintenance Roughs and Natural Areas for Golf Courses

Jay McCurdy, Ph.D., Associate Professor, Mississippi State University,

Jared Hoyle, Ph.D., Turf and Ornamental Territory Manager, Corteva Agriscience

Maggie Reiter, Extension Educator, University of Minnesota

(1098-01) Golf's modern focus on environmental and economic sustainability has led to increased interest in low maintenance roughs. Management of naturalized areas can influence water quality and use, lower costs and improve wildlife spaces. You will learn to create and improve low maintenance roughs through selection of grasses, incorporation of native forest components, and forbs for wildlife. Improve aesthetics, pace of play, overall course quality, and obtain resources for selecting and establishing the best plants.

#### Sequencing of Your Renovation; Understanding the Process and Timeline

Doug Wright, Vice President of Strategic Planning, Heritage Links, Houston, Texas

Chris Lineberger, Construction Superintendent, VM Golf Services, Sugar Land, Texas

(1342-01) The presentation will focus on what superintendents can expect during a golf course construction and/or renovation project at their facility. Superintendents will learn what the demands will be of them during construction and how to manage their energy between maintaining the golf course and being involved in the construction renovation project process, as well as keeping members and management informed. Learn key issues that could arise during construction and how to see them before they occur. They will learn how to act as the golf course's key representative to the golf course contractor, since the superintendent of the course is often the most involved employee of the golf course in the construction process and

tasked with making sure the contractor is successfully executing the construction/renovation. The information presented will allow the attendees to be able to better understand what to expect during their next golf course renovation/construction project with case studies and timelines to help prepare for what's ahead.

### 3 Hour Seminars

9 am – Noon

#### Tackling Tough Cool-Season Turfgrass Weeds

Matthew Elmore, Ph.D., Assistant Extension Specialist, Rutgers University, New Brunswick, N.J.

Steven McDonald, Ph.D., Agronomist, Turfgrass Disease Solutions, Spring City, Pa

(1340-01) We want to help superintendents address their most problematic weed situations within the Northeast and Mid-Atlantic region, as this region is unique in the fact many southern and transition zone weed problems are present in cool-season turf. Let us help you walk through research-based solutions to help your existing weed control programs with an integrated approach to target them in an economic manner. A substantial portion of this seminar will discuss weed control in fine fescue and naturalized areas, and there will also be opportunity for hands-on interactive activities for attendees.

1 pm – 4 pm

#### Investing In Your Future: From Day Trading to Retirement Planning

Justin Sims, Director of Grounds and Facilities, The Alotian Club, Roland, Ark.

(1345-01) Retirement is something everyone is working toward... are you sure that your current plan will allow you to comfortably retire in the near or distant future? Whether you invest a certain percentage of money each paycheck into your retirement plan or you are interested in actively trading stocks, it is crucial to understand how various personal investment vehicles work and the risks associated with them. Take this seminar to learn how you can become more active and confident in planning for your current and future financial needs.

Disclaimer: This information should not be interpreted or construed as financial advice. All investments carry risk and all investment decisions of an individual remain the responsibility of that individual. Please contact a professional licensed financial planner with specific questions related to investing before engaging in any form of financial investment activity

### 2 Hour seminars

1 pm – 3 pm

#### Controlling Seedheads of Annual Bluegrass in Northern Climates

Matthew Elmore, Ph.D., Professional Turfgrass Solutions LLC, South Jordan, Utah

Adam Van Dyke, MS CPAg, Assistant Extension Specialist, Rutgers University, New Brunswick, N.J.

(1343-01) We have some new solutions to an old problem – annual bluegrass seedheads. Any superintendents struggling with seedhead control will not want to miss these new research-based strategies to get the most out of chemical seedhead control efforts. This presentation includes new strategies for a more comprehensive seedhead management, seedhead control

and turf safety from the intermountain west and northeast U.S. regions will be discussed. Attendees will learn how to: integrate new strategies to improve seedhead control, explain why genetics climate are integral components to manage seedheads, and implement practices using new nutrition and cultivation impacting seedhead development.

#### HELP! I Need a Solution.

Doug Linde, Ph.D., Professor, Turf Management, Delaware Valley University

Steven McDonald, Agronomist, Turfgrass Disease Solutions, Spring City, Pa.

(1347-01) In this highly interactive experiential learning seminar, attendees will work in small groups to solve a variety of complex turf and golf management-related problems presented as case-studies. Each attendee will have a chance to lead their group through the problem-solving process, gain experience running a brainstorming session, and use various strategies to select a solution. This seminar will provide the opportunity to work on problem solving and brainstorming skills to solve complex problems with your peers.

#### Tips and Tricks for Your Maintenance Facility

Trent Manning, Equipment Manager, Ansley Golf Club, Roswell, Ga.

Eric Dickerson, Equipment Manager, Great Waters Course at Reynolds Lake Oconee, Greensboro, Ga.

(1348-01) Come learn alongside your peers the tips and tricks to make your maintenance facility safer for everyone, improve efficiency, and increase cost effectiveness overall. Attendees will walk away with practical solutions to combat your most pressing issues.

#### Wetting Agents and Their Effects on Putting Green Surfaces

Douglas Karcher, Ph.D., Professor, Dept. of Horticulture, Ohio State University

(1032-01) Localized dry spots on sand-based putting greens are common everywhere. Wetting agents are effective treatment in treating these, but many superintendents question the use and results in greens that are too wet or dry. Identify the cause of localized dry spots; learn how wetting agents overcome water repellent root zones & how soil moisture is affected after application. Learn: how various wetting agents suppress localized dry spots, affect rootzone moisture, surface firmness, ball roll, how wetting agents are classified – penetrant or retainer, and how application timing & post-application irrigation affects surface efficacy.