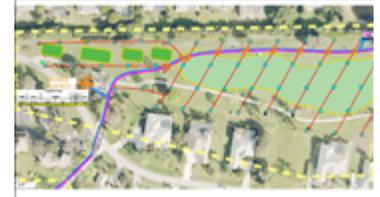


Agronomic

ABCs of Irrigation System Design

Among the biggest projects any turf manager may undertake will be a new irrigation system. While many shy away from playing an active role in the system's design, Ashley Wilkinson explains why and how you should help in planning for such a large construction project. This 90-minute webinar in our ASCS Prep series simplifies the components that all managers should evaluate. Key areas discussed include basic hydraulics, various design styles, and system control options. Wilkinson also reviews choices in piping systems and pump station options. You gain both tips and confidence to make informed decisions for the long-term protection of your facility.



Original presentation date: Dec. 6, 2018 Education points: 0.2 *This course has captioning as part of the recording.*

About the Instructor: Ashley Wilkinson is a professor at Horry Georgetown Technical College having started his education there before earning his master's degree in Turfgrass from Auburn University. Wilkinson has over 25 years in the turfgrass industry, serving as a superintendent, project manager, and irrigation designer/consultant. In addition to his university duties, he continues to consult to numerous venues while managing construction projects specific to irrigation.

Cation Exchange Capacity: 15-Minutes of information you can use

Date Reported: 11/24/2001

SOIL TEST REPORT									
Depth	Temp	Moist	pH	EC	Ca	Mg	K	Na	CEC
cm	F	%		dS/m	ppm	ppm	ppm	ppm	meq/100g
24 M	56 M	196 M	5.70 N	2550 M	8.8				16.7
53 UN	80 UN	188 M	2.10 N	1000 M	7.2				7.2
9 VL	16 L	94 M	3.95 N	1400 M	6.0				6.9
102 UN	104 UN	136 M	25 L	250 VL	4.9				6.9
									3.2

VL = VERY LOW L = LOW M = MEDIUM N = HIGH UN = VERY HIGH

Cation Exchange Capacity sounds fancy and complicated, but it's a pretty solid concept that helps you better understand your soil and its ability to hold nutrients. Beth Guertal, Ph.D., takes a look at the reason 'CEC' will show up on your soil-test report, and what you can do with that information. Seriously, 15 minutes to learn the basics of CECs.

Original presentation date: Sept. 6, 2019 Education points: 0.03

About the Instructor: Elizabeth Guertal, Ph.D., is a professor at Auburn University. She earned her bachelors and masters from The Ohio State University and her Ph.D. from Oklahoma State University. Guertal's research interests and areas of focus include soil fertility, turfgrass management and the flux of fertilizer nutrients in the turfgrass environment. Her university appointment includes 50% teaching and 50% research. She has been a GCSAA faculty member since 2001 teaching both seminars and webinars.

Fertilizer Calculation for Turfgrass Managers

Fertilization of turfgrass takes place at every golf course. Some would call it a basic process, but the math involved is anything but basic. In this 40-minute presentation, Alec Kowalewski, Ph.D., goes over the calculations needed to provide specific amounts of Nitrogen to different areas of turf. He covers both granular and liquid fertilizers, explaining differences in detail you need to capture from the products' packaging. You'll come away with the information you need to do the math for both purchasing and application for different areas of your facility.

Original recording: January 2020 Education points: 0.06

LIQUID FERTILIZER

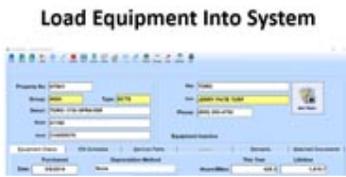
0.2 lbs N per 1,000 sq ft
 GrassSoGreen (7-7-7)
 Specific gravity/density 1.1 g/ml
 \$40 per gallon
 2 acres



About the Instructor: Alec Kowalewski, Ph.D., is a Turfgrass Specialist, Associate Professor in the Department of Horticulture at Oregon State University. He earned his bachelor's in landscape design (honors) at Michigan State University. Both his masters and his Ph.D. in crop and soil sciences were earned at MSU. Kowalewski's current appointment is 50% teaching and service and 50% extension and outreach. Before joining the faculty at OSU, he was an assistant professor at Abraham Baldwin Agricultural College and worked at the University of Georgia Coastal Plains Experiment Stations as a research scientist. Kowalewski's overall extension and research goal is improving the environmental and economic sustainability of turfgrass management. He has been a GCSAA member since 2009, has served on the Research Proposal Review Committee and has previously taught webinars for GCSAA.

Business

Computerizing Your Shop: Fleet Management



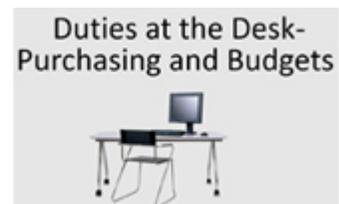
If you've been using the same paper-based system for years at your facility maybe it's time to take a look at making a change. John Patterson, equipment director at the Atlanta Athletic Club, has done some of the groundwork for you. In this 60-minute webinar from our equipment management series, Patterson covers the business case for implementing computer-based fleet management. He starts with the needed background of inventorying and organizing all machines and equipment then move to creating maintenance schedules and checklists, etc. You'll learn about the

organizational strategies involved and the advantages that computer-based systems provide. Listen in to find some options that may work for you. Original presentation date: Mar. 21, 2018 Education points: 0.1

About the Instructor: John Patterson is the equipment director at the Atlanta Athletic Club. A lifelong mechanic with a broad range of experience, John Patterson moved from Chicago to Florida in 1993 and started his golf equipment maintenance career. Patterson holds certificates in all areas of equipment maintenance and was a founding member and past president of the International Golf Course Equipment Managers Association (IGCEMA) prior to its merger with GCSAA. He enjoys developing new techniques in the shop and sharing developments with his peers.

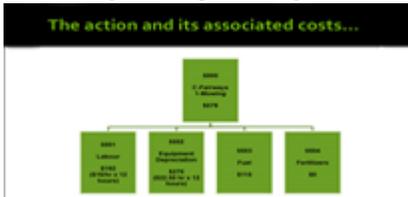
Duties at the Desk: Purchasing and Budgets

You may have started in golf course management because of your love of the outdoors or of the game. While that passion makes it easier to prepare for a 6 o'clock shotgun, it doesn't help much when it's time for navigating the financial side of the job. Roger Stewart, Jr., CGCS, teaches some key aspects of the business of balance sheets and budgets. He shares tips he's learned in the office that will help you plan your expenditures to deliver the playing conditions your golfers can enjoy. Original presentation date: Feb. 28, 2018 Education points: 0.10



About the Instructor: Roger A. Stewart Jr., CGCS, is a recently retired golf course superintendent. Stewart has been a GCSAA member for 42 years. He has taught workshops and seminars for the PGA of America, GCSAA and the U.S. Air Force. His involvement includes past service as president of The Midwest Association of GCS, the Chicagoland Association of GCS and GCSANJ, as well as committee participation for GCSAA.

Economy vs. Agronomy: The Business of Turfgrass Management



It is called the golf "business" for a reason. With agronomy and economy often at loggerheads for today's superintendent, this webinar will focus on these elements as you strive to balance playability values within the context of a budget. Can you become more sustainable and embrace change? How much do you invest and where and why? Can you reduce labor challenges with some strategic approaches? Does research exist to help make choices? And what about return on investment (ROI)?

John R. Bladon, PAG, ISSP, and Matthew Gourlay, CGCS, MG, focus on some theory as well as provide real-world examples of how to embrace change, take a more discerning look at elements of the operation while minimizing any bias we may have developed. In this 90-minute webinar, they discuss elements that can be integrated into operations to strengthen the golf "businesses" for which you work. In addition, with resource use concerns continuing to rise (water, pesticides and other inputs) they will touch on key hot topics that will enhance the sustainability of your operations and bring improvement.

Original presentation date: June 12, 2019 Education points: 0.2

About the Instructors: John R. Bladon has been immersed in the environment since childhood. His love affair with the outdoors was nurtured by his father, a horticulturist and manager of grounds at the University of Guelph. Since studying agriculture, horticulture and agronomy at the University of Guelph, Bladon spent time as a golf course superintendent at both private and public facilities and worked as an agronomist at a multinational providing research, innovation, and technical support to the company's global efforts. With more than 30-years in the industry, Bladon has authored in excess of 50 articles and lectured to audiences of all types all over the world. For the last eight years he has operated The Chimera Group, a green industry management, communications and consulting firm with a specialization in sustainability. Matthew Gourlay, CGCS, MG, is the director of golf course operations at Colbert Hills Golf Course in Manhattan, Kan. He has worked at Colbert Hills Golf Course for the past 17 years. Gourlay earned his bachelor's degree in agriculture, with a minor in business management, from Kansas State University, earned GCSAA certification in 2011 and in May 2019 earned his Master Greenkeeper certificate from BIGGA. He was named the 2015 Superintendent of the Year by Turfnet. Gourlay has served on several GCSAA committees, as well as being a Grassroots Ambassador and has presented sessions at the Golf Industry Show since 2017.

Communication

Building a Bridge, Not a Gap 2.0

Too often, the stories we hear about the relationship between the golf professional and the superintendent focus on the negative. In dealing with human nature, managers must overcome the temptation to stay focused in their own areas, without understanding the other person or what their role requires. In this 90-minute webinar, we hear about the "on-going maintenance of a bridge" that effective relationships require to succeed. Paul Schell, director of golf, Eric Schomske, head golf professional, and Jeffrey Wuenstel, general manager, discuss how understanding each other's problems or point of view enhances the team concept at Lake Shore Country Club.



Original presentation date: May 14, 2019 Education points: 0.2

About the Instructors: Paul Schell is director of golf at Lake Shore Country Club in Erie, Pa. Schell has worked 20 years in the golf industry as with experience as a head golf professional and golf course superintendent prior to taking the director role. He spent 10 years on Hilton Head Island in all 3 roles. Schell recently earned Class A status with the GCSAA. Eric Schomske is head golf professional at Lake Shore Country Club in Erie, Pa. He started by working for PGA golf professional of the year and learning the ropes as an assistant golf professional in Rochester NY. Schomske has 15 years' experience, having worked at several high-end country clubs and has now been the head golf professional at Lake Shore CC for 6 years. Jeff Wuenstel is been general manager of Lake Shore CC for the past 8 years. Wuenstel is a CCM member with many years of experience in the golf and country club industry. His management style emphasizes department heads' leadership throughout the club and promotes each individual the ability to succeed on their own. He's able to assist in any aspect of the club which helps Lake Shore's employees achieve their full potential.

How to Set Yourself Apart in the Golf Industry – The Art of Self Promotion



A 30-year GCSAA member and veteran golf course superintendent, Darren J. Davis, CGCS, has had a storied career. He is extremely passionate about the profession and the industry and has served as a mentor to numerous aspiring golf course management professionals. In this 90-minute webinar, Davis uses personal stories and real-life examples to demonstrate the importance of communication, professionalism and self-promotion as a way to set yourself apart and advance. Davis covers a variety of topics designed to help

you present yourself at the highest level and become the "author of your own destiny."

This webinar is focused for assistant golf course superintendents or anyone looking for tips and techniques to enhance their marketability in the golf course management industry.

Original presentation date: Dec. 5, 2019, 2019 Education points: 0.20

About the Instructor: Darren J. Davis, CGCS is the golf course superintendent at Olde Florida Golf Club and served as GCSAA's 82nd President. He is also a past president of the Everglades GCSA, the Florida GCSA and the Florida Turfgrass Association (FTGA). Davis attended the Turfgrass Management program at The Pennsylvania State University where he graduated with highest distinction. He also obtained an Associate in Arts Degree from Tallahassee Community College, and the Florida Gulf Coast University conferred upon him a Bachelor of Arts in Communication, Summa Cum Laude. Prior to joining Olde Florida GC, Davis was the assistant superintendent at the Loxahatchee Club in Jupiter, Florida. Additional professional experience includes two stints at the Augusta National Golf Club, the first serving as an apprentice superintendent and returning as the IPM technician. Davis has been published in *Golf Course Management* seven times and is a two-time winner of the Leo Feser Award, presented for the best superintendent written article. In 1995, GCSAA also presented Davis with the National Environmental Steward Award in the private course division, in 2004 the Florida GCSA honored him with its Distinguished Service Award and in 2011 the FTGA presented Davis with the Wreath of Grass - the association's highest award.

Improving Management & Communication

If you're being asked to control expenses more than ever before (labor, equipment, chemical inputs, etc.), you need to be able to explain the impact of the choices being made on conditions and golfer satisfaction. In this 90-minute webinar, Bill H. Maynard, CGCS, explains ways to further develop the management and communication skills you need to stay on top of your career and take your facility to the next level.



Skills covered include:

- Budgeting to control costs and manage expenses to match declining revenue.
- Building successful and credible relationships especially within your facility.
- Strengthening your communication skills for a variety of situations and audiences.
- Practical examples provide a big portion of this discussion, and you'll learn new ways you can be more successful with less stress.

Original presentation date: March 10, 2016 Education points: 0.2

About the Instructor: Bill H. Maynard, CGCS, is a GCSAA Past President and has served as the director of golf course maintenance operations at The Country Club of St Albans since 2013. He earned his bachelor's in psychology from the University of Tennessee and first achieved certification in 1998. Prior to St. Albans, he was the superintendent at Milburn Country Club, The Golf Club of Tennessee, The Virginian Golf Club and Champion Hills Club. Maynard is a past president of the Heart of America GCSA and a former board member for the Carolinas GCSA. He has also served on numerous GCSAA committees, including Membership, Career Development, Professional Development, Certification and the Online Task Group. He has taught seminars and webinars for GCSAA since 2008.

Environmental Management

Calibrating Your Sprayer & Selecting the Right Nozzles



Calibrating is often an important, sometimes overlooked or infrequent practice by many turfgrass managers. Calibration ensures that you apply products correctly the first time, which can save you time and money and lead to better turf. Furthermore, calibration is not as difficult as it may initially seem. In this 90-minute webinar, Aaron Patton, Ph.D., covers the basic principles of calibrating various types of sprayers and discusses nozzle selection and how it can affect drift, as well as pest control.

Original presentation date: Jan. 8, 2015 Education points: 0.2

About the instructor: Aaron J. Patton, Ph.D., is an associate professor in the department of Horticulture & Landscape Architecture at Purdue University, where he serves as turfgrass extension specialist. He earned his B.S. from Iowa State University and his M.S. and Ph.D. from Purdue University. His appointment provides him the opportunity to be involved with extension, teaching, and research. His extension responsibilities are to support county educators and providing education to Indiana's \$1.8 billion turfgrass industry. His research responsibilities include planning, implementing, and leading projects devoted to managing quality turf while reducing management inputs. Patton's research interests focus on weed ecology and control, warm-season grasses, and agronomic practices in turfgrass systems. He teaches the senior level turfgrass science course at Purdue University and mentors undergraduate and graduate students. Patton has been a GCSAA faculty member since 2008 teaching at the education conference as well as numerous webinars.

A Greener Golf Course

Maintained turf is critical to the playing field of golf and provides a valuable green space in urban environments. There are other elements to the golf course that can provide pollinator and wildlife habitat. You can learn more about it and what you can do from Jay McCurdy, Ph.D., as he covers interesting aspects of sustainability in this 40-minute presentation.

Original recording: Dec. 2019

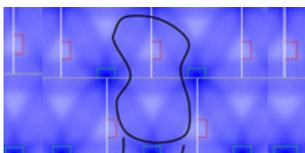
Education points: 0.06



About the Instructor: Jay McCurdy, Ph.D., is an assistant professor and extension specialist at Mississippi State University in Starkville, Miss. He earned his bachelor's and master's degree in Plant Sciences from the University of Tennessee and his Ph.D. in Agronomy and Soils from Auburn University. McCurdy's research interests include turfgrass weed ecology and management, herbicide resistance, pesticide fate, and wildlife habitat inclusion within urban environments. He serves as academic liaison for the Louisiana-Mississippi Golf Course Superintendent's Association and is active advisor for the Mississippi Turfgrass Association. McCurdy has taught both seminars and webinars for GCSAA.

Look at Your Irrigation System's Distribution Uniformity

Efficient use of water on the golf course is one of many practices that keeps you busy. Cost of labor for hand watering –



not to mention the price of water itself – makes this an area where your facility may be spending more than in the past. Steve Southard, CGCS, explains in this 90-minute webinar, how the courses under his care in The City of Loveland, Colo., are now getting more uniform distribution of water. Learn the steps to perform for your own stress testing – from using fewer catch cans to slashing the time spent to just who should perform the test - and what you need to know before you start. While wetting agents and hand watering are normal, Southard

presents ways you may be able to reduce these practices, keep quality playing conditions and enjoy a better bottom line.

Original presentation date: Jan. 18, 2017

Education points: 0.2

About the Instructor: Steve Southard, CGCS, is the golf operations manager for the City of Loveland, Colo., where he has worked since 2006. A 12-year member of GCSAA, Southard is also a Certified Park and Recreation Executive. He is president of Pace and Production, LLC, a golf course training and consulting company specializing in pace of play and increasing revenue. Southard has taught both seminars and webinars for GCSAA.

Equipment Management

Mowing Quality of Cut – three-part video series

General Cut Issues and Diagnosis



After cut appearance and quality of cut for both reel and rotary mowers is certainly an important part of golf course maintenance. For those individuals who work on the mowers, knowing what's behind that quality and getting troubleshooting tips is part of being successful. Recorded live during an equipment managers tech session for the ET members of the Mississippi Valley Chapter of the GCSAA at Norwood Hills Country Club in St. Louis, Mo. Erik

Parker, golf sales and service representative, Erb Turf Equipment, covers identification of cut issues from environmental to agronomic to soil conditions and even the unlikely operator error.

Chris Rapp, equipment manager, Bellerive Country Club, provides real world examples from his decades of experience in the golf maintenance business. Parker hopes, "You'll walk away with a better understanding of some of the cut quality issues common to our business." You can sure walk out on the course with printable checklists in hand to help you put his troubleshooting ideas into action.

Original presentation date: April 23, 2019 Education points: 0.08 42 minutes

Height of Cut & Frequency of Clip and Troubleshooting.

This section covers bench setting vs. effective height of cut, bedknife aggressiveness and frequency of clip issues. Details on troubleshooting of various quality of cut issues round out the presentation.

Original presentation date: April 23, 2019 Education points: 0.08 44 minutes

Tools to See Cut Quality

After cut appearance and quality of cut for both reel and rotary mowers is certainly an important part of golf course maintenance. Learning more about the tools that can help you see cut quality and make adjustments is the focal point of this section which also steps outside at Norwood Hills Country Club in St. Louis, Mo., for a short demo of some of the tools discussed.



Original presentation date: April 23, 2019 Education points: 0.03 20 minutes

Turfgrass Equipment Operations and Management



Recorded live in San Diego during one of our GIS seminar offerings, this segment features Gary Bogdanski, who discusses how your organization can improve training and safety for your team. He provides resources you can use and customize for your facility's specific needs. Bogdanski provides concrete examples from containment sumps to fire safety to respiratory protection with ideas you can implement on a small budget.

Original presentation date: Feb. 4, 2019 Education points: 0.1

About the Instructor

Gary Bogdanski is the Equipment Manager at The Sharon Golf and has 30 years' experience in that position. He earned an associate degree in Mechanical Technology from The University of Akron. Bogdanski served on the GCSAA Equipment Manager Task Group and has completed both Level 1 and Level 2 of the EMCP. He has authored articles on golf course maintenance and pesticide storage facilities and has presented shop safety education with an emphasis on OSHA practices

Leadership

Becoming an Effective Manager if only your job was about growing grass

You were promoted because you were good at *doing* the work. Now, your job is to lead the people who do the work. And that's no easy task! Call-outs, conflict, job openings and poor performance; Jodie Cunningham addresses them all in this 90-minute webinar. She knows it takes skill and practice to navigate your people issues effectively and has experience from more than 20 years in HR that she will share. Even if you are an experienced supervisor, you'll learn some tips and tools on successfully leading strong teams. Make time to watch this one – both you and your team will be glad you did.

Original presentation date: Sept. 25, 2018 Education points: 0.2



About the Instructor: Jodie Cunningham is the owner and human capital advisor for Optimus Talent Partners LLC. She specializes in workforce analytics, which help organizations get the right people in the right jobs and grow their exceptional talent. Cunningham earned her bachelor's in communication from Arizona State University, master's in organizational management from the University of Phoenix and is SPHR and SHRM-SCP certified. She is married to John who has worked in the golf industry for more than 20 years and is a seminar instructor at the Golf Industry Show

Leadership and Teamwork: A 360 Degree Approach

A random look of leadership "styles"



Teams have a designated leader, yet we all know people who also lead from where they are, adding value for their boss and their facility. Many equipment managers are in a unique position to lead not just their team but also their peers and their "superiors." Join Roch Gaussoin, Ph.D., as he shares ideas to help you lead up, down and across to guide your organization. You'll learn how you can expand your influence and ultimately be a more valuable team member.

Original presentation date: July 22, 2015 Education points: 0.1

About the instructor: Roch E. Gaussoin, Ph.D., is professor and Head of the department of agronomy and horticulture at the University of Nebraska-Lincoln. He earned his bachelor's and master's degrees at New Mexico State University and his Ph.D. at Michigan State University. Gaussoin was an extension turfgrass specialist for more than two decades at UNL before being appointed as head of the department – a diverse group that includes more than 70 faculty, more than 150 staff and nearly 400 undergraduates in disciplines ranging from agronomy to turf and landscape management. Gaussoin has written for Golf Course Management magazine and has taught seminars and webcasts for GCSAA since 1992. He was awarded GCSAA's Distinguished Service Award in 2013.

Time Management & Goal Setting for Success Now

People are constantly expected to get more accomplished in less time and with even fewer resources. Are you managing your time and your tasks or are they managing you? Perhaps you are dealing with a lengthening to-do list to which tasks are being added more quickly than they are being marked 'complete.' In this engaging, on-line program, you have the opportunity to step back and get a fresh perspective on what really matters. Rick Capozzi helps you see how to achieve greater results while eliminating the interruptions and tasks that drain your energy and productivity. This 60-minute webinar is chock-full of insights, ideas and best practices to help you to focus on the 20% where your real results originate. At the same time, you will gain insights on how to reduce the 80% that causes negative stress and slows your success.



In this session you will:

- Discover ways to leverage people, finances, and other resources for maximum efficiencies
- Discuss how to set goals and develop action plans
- Create the vision of your success
- Prioritize effectively and learn a technique to say, 'no' respectfully
- Develop 'old school' as well as modern techniques for greater results

Original presentation date: Sept. 28, 2016 Education points: 0.1

About the instructor: Rick Capozzi has been delivering personal growth and development training as well as providing global marketing services since 1991. A native of Franklin, Pa., Capozzi earned his bachelor's in communication from Clarion University of Pennsylvania. During his tenure at The Pennsylvania State University as a Learning Strategist with the Human Resource Development Center, he designed, developed, and/or delivered some of the department's most popular programs. Capozzi has worked with small businesses, Fortune 500 companies, elementary schools through higher education, local churches to international ministries, and individuals to entire companies. Capozzi is the author of two inspirational/motivational books.