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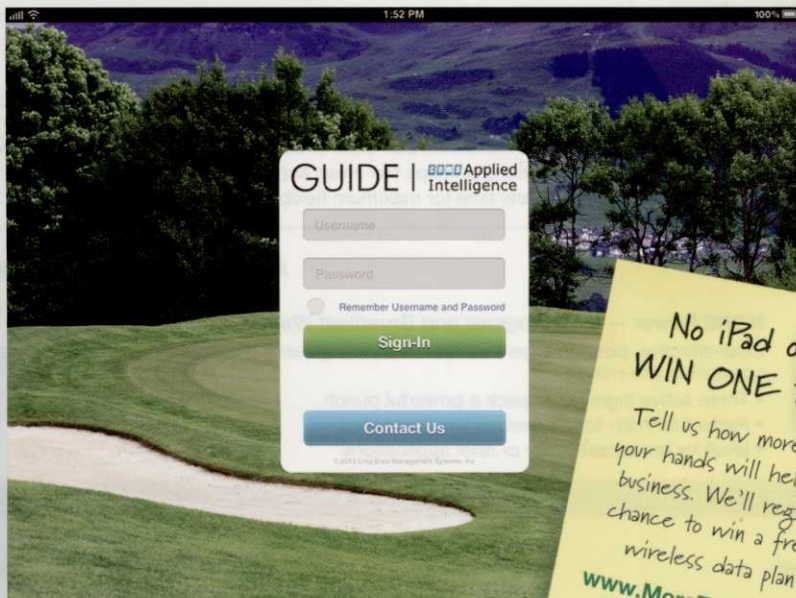
Introducing GUIDE, the product information app for the turf and lawncare industry

In your fast-paced, mobile business, getting the right information at the right time can make all the difference. That's why we're sponsoring GUIDE, a robust mobile app that brings every product label to your iPhone® or iPad®.

With a few taps, you can easily find pests controlled, application rates, re-entry intervals and any other information found on the product label and MSDS. Even DOT shipping information is right at your fingertips.

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Selective Herbicides

4-SPEED™ XT

A.I. 2,4-D, triclopyr, dicamba, pyraflufen-ethyl



MORE Speed

Triclopyr joins 2,4-D, dicamba and pyraflufen-ethyl to create a combination lethal to virtually any broadleaf weed in cool-season turf species.

- Fast-acting broadleaf weed control with visible results within 24 to 48 hours
- Excellent choice for control of wild violet and ground ivy
- Good tolerance on established cool season turf and zoysiagrass

COOL POWER®

A.I. MCPA, triclopyr, dicamba



MORE Days to Spray

Ester-based formulation for tough-to-control weeds. Specially formulated for use in cool weather.

- Iron-friendly formula allows tankmixing for fast green-up
- Allows use of broadcast 2,4-D later in the season

ESCALADE®2

A.I. 2,4-D, fluroxypyr, dicamba



MORE Confidence

Consistent, broad-spectrum broadleaf weed control under any environmental condition.

- Offers the power of three proven herbicides in one convenient pre-mixed formulation
- Delivers quick visual response, devastates weeds and reduces callbacks
- Excellent control of more than 240 broadleaf weeds including clover, dandelion, plantain, oxalis, chickweed and other hard-to-control species

Millennium[®] ULTRA²

A.I. 2,4-D, clopyralid, dicamba



MORE Control — Including Thistle and Clover

One of the most effective herbicides on the market, offering superior clover control for golf course and non-residential settings.

- Control clover, thistle and more than 250 other broadleaf weeds with one application
- 'Meltdown' and residual control keeps turf clean and pristine for weeks
- Can be applied virtually any time for maximum flexibility

Quincept®

A.I. 2,4-D, quinclorac, dicamba



MORE Power — On Crabgrass and Broadleaf Weeds

Cost-effective, post-emergent control of annual grasses plus more than 200 broadleaf weeds in a convenient pre-mix.

- Three active ingredients pack a powerful punch
- Perfect for mid- to late-season weed escapes
- Ideal for broadcast spray or spot applications

Non-Selective Herbicides

ProDeuce®

A.I. glyphosate, proflaminate



MORE Time

Kills existing weeds and prevents germination of new weeds for three to six months.

- Unique, proprietary formulation combining pre- and post-emergent herbicides to deliver contact and residual control of a variety of weeds
- Offers 3 to 6 months residual control
- Can reduce labor costs and damage associated with mechanical trimmers

Insecticides



A.I. imidacloprid



MORE Flexibility — From the Roots Up

Optimum control of grubs and piercing and sucking pests. Single product for use in both turf and ornamental applications.

- Excellent choice for insect control in residential, commercial and industrial outdoor and interiorscape areas, trees and shrubs as well as spray application on landscape ornamentals
- Systemic activity for lasting performance – one application offers contact and residual activity



A.I. bifenthrin



MORE Bugs Controlled

Fast-acting pyrethroid for control of many insect species in nearly all application sites.

- Excellent tank-mix partner with odorless, non-staining formulation
- Excellent control of insect and mite pests in both larval and adult stages
- Low use rates with residual activity
- Approved for use in greenhouses and nurseries, golf courses and on ornamentals and turf in landscaped areas around residential and commercial buildings

Fungicides

Nufarm

Propiconazole SPC 14.3 MEC

A.I. propiconazole



MORE Disease Prevention Power

Micro-encapsulated liquid offers preventive, systemic activity to combat many of the worst diseases in turf. Flare root injection in trees.

- Excellent control of rust, dollar spot, large patch, brown patch and more
- Ideal tank-mix compatibility and easy mixing into a clear solution
- Offers systemic activity with long-lasting control in a low-odor liquid

Nufarm

T-Methyl SPC

A.I. thiophanate-methyl



MORE Turf Quality

Broad-spectrum, systemic control.

- Controls brown patch, dollar spot, anthracnose, gray leaf spot and other diseases
- Works systemically to protect new growth

Nufarm

TM+IP SPC

A.I. thiophanate-methyl, iprodione



MORE Reliability

Broad-spectrum premix controls nearly every major fungal disease in ornamental, non-residential turf and golf course settings.

- Reliable, consistent protection against brown patch, dollar spot, leaf spot, large patch, anthracnose, gray leaf spot and other diseases
- Contact and systemic activity
- Drench applications on ornamentals



For use on residential ornamental turf and landscapes.



For use on golf courses and commercial properties.

For general informational purposes only. Not intended to replace label instructions. Always read and follow label directions.



V MORE SUPPORT

Get more product support with 'Ask a Ph.D.'

When you specify Nufarm products, you're not just buying product in a jug or bag. You're also gaining access to an outstanding support team. Our Ph.D.s are ready to answer your questions about pests, formulations, application and other issues that you may face. Simply e-mail your question to askaPhD@us.nufarm.com, and we'll get you a response in 48 hours or less. More support from us means more knowledge and better results for your business.



V MORE PERFORMANCE

Get more performance from 'fully-loaded' products

Tested and proven Nufarm products provide the fully-loaded advantage: the full level of active ingredient required to control the problem, not just suppress it. The way we see it, when you spend your time and money to treat a problem, you want it gone. While our fully-loaded products may cost a little more, you're getting more — more control, more confidence, more value — in other words, **More Where It Matters Most.**

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More Where It Matters Most.

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Monroe Miller is a retired golf course superintendent. He spent 36 years as superintendent at Blackhawk Country Club in Madison, Wis. Miller can be reached at groots@charter.net.



THE MONROE DOCTRINE

PRESIDENTS I HAVE KNOWN

One of the hallmarks of my 40-year membership in the GCSAA has been the acquaintance of most of the GCSAA presidents during the period 1973 – present. The presidents are a group that mostly reflects our members – different in many ways but bound together by a love of golf and golf courses. And clearly each was a leader in his own right – you’d have to be to endure the effort required to reach the presidency and then execute the duties of the office.

Over the years I also had an occasional chance to meet a past president from a year well before my career started. Some GCSAA members will remember the annual banquet and show. Seating tickets were required, and I would usually be first or second in line, early in the morning, to get a good ticket. Since past presidents were automatically seated near the front stage, I frequently filled out one of those tables. What a deal – seated among the men who helped write GCSAA’s history. I met Chet Mendelhall, Bob Williams, Sherwood Moore, and John Spodnik that way. And I came to know Cliff Wagoner and Bob Michell even better at those banquet dinners. As I think about it, GCSAA should honor Cliff Wagoner and his wife for their sterling GIS attendance record, which extended well beyond his retirement.

The only president from the 1970s I haven’t met is George Cleaver, but almost as an offset was a very warm relationship with Ted Woehrl. One of the earliest GCSAA seminars in the mid-70s was in Champaign, Ill., and Ted was the GCSAA officer hosting it. From that time on, through our mutual interest in chapter publications, Big 10 sports and golf, we remained good friends. I still miss seeing him. I think that Palmer Maples made

very significant contributions during his time at headquarters, including serving as the GCSAA exec during a transition period. He was a good guy and always had a smile and kind word.

The presidents of the 1980s were a superb group; Jim Wyllie is the only one I never knew. But to this day I treasure the friendship of Mel Lucas and Don Hearn. Both are great men who have contributed mightily to our profession over the years, and have continued to do so in their “retirement.” Mel is a book and history guy,

The presidents are a group that mostly reflects our members – different in many ways but bound together by a love of golf and golf courses.

like me, only I am strictly an amateur when measured to the enormous knowledge he has. I visited the USGA Museum years ago, and there was an upstairs display of turf equipment from years gone by – “On loan from the collection of Melvin B. Lucas.” No one will match his collections or his library (unless they buy his!) because Mel started collecting so long ago as the son of a superintendent just outside NYC.

Don Hearn is a smart, sincere and friendly man who exemplifies what a GCSAA president should be, in my eye. It is always a good thing to be represented by someone with his class and personality.

Mike Bavier often interacted with Wisconsin superintendents and he’s also been someone I have enjoyed knowing better than most of the past presidents. The same is true for Jim Timmerman, a person I teamed up with to solve what became a difficult problem. He was Dr. Paul Reike’s first grad student at MSU and worked for a time as a Green Section agronomist. He’s a good man. Riley Stottern hired

my assistant at a time he wanted to work and live out west, and Gene Baston was an excellent example of southern hospitality, I learned.

John Segui was a link to the past since he was a little older when he served; I really liked John and enjoyed talking to him about the personalities of our profession from years earlier. I didn’t get to know Dennis Lyon until we both were near retirement. I liked his military service and have come to enjoy his writing.

The 1990s, from my view, was a

period of conflict in the GCSAA and as a chapter publication editor I had a few open spats with some of the presidents.

Jerry Faubel worked in Wisconsin for a few years, so we were proud when he was elected. That was even more true when Bill Roberts, a past president of our chapter, made it to the top of GCSAA. He has done well, is still tangentially involved in golf turf and practices law in a Chicago suburb. Steve Cadenelli was another Midwest guy that I served with on a couple of GCSAA committees and made his acquaintance that way.

Joe Baidy really grew during the time he served on the board, through to his service as president. He was an exceedingly friendly guy in my eyes, but I haven’t seen him for a few years.

Gary Grigg visited Wisconsin while he was on the board, speaking at a chapter meeting in Lake Geneva one spring. His family had Wisconsin ties with the potato industry in the central sands region of our state, and we had a great talk about that. During his term

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A term as president takes a strong sense of leadership and duty, a huge work ethic and a vision of the direction our profession should go.

and Bruce Williams' term, the controversial chapter affiliation legislation was enacted and I was openly strongly against it. Neither man was happy about that, and I never really recaptured a relationship with Gary.

Bruce was different, however. We battled during that time and from some subsequent time, but got back to normal somehow. Bruce has a great sense of humor can take a shot and give one right back. He has definite skills as a storyteller and skilled writer. My wife and I visited with him for a couple of hours at the GCI booth last year. He's easy to be around and I enjoy seeing him these days.

The opportunity to meet George Renault never happened for me, but I was around Paul McGinnis enough to know he was a really super person who represented the association well in his time.

Dave Fearis and I shared some common threads in our lives that made friendship with him natural. We were both members of Alpha Gamma Rho fraternity – when he was at Purdue and I was at Wisconsin – and we won a GCSAA scholarship the same year – 1967. We had mutual friends in a golf course construction company that did work for him often in the fall of the year. The company was based in my town. Dave had a tough job when he was involved on the board and as president – selling PDI. I know he was frustrated when he asked me to support it and I told him I didn't even know what it was! I guess I was an uninformed member that year.

The new century started with Scott Woodhead, a friend through the chap-

ter publication fraternity that so many past presidents belonged to at one time or another. Mike Wallace and I were on a committee together, as was Sean Hoolehan. I never knew Mike well; Sean appealed to my sense of values of what a president should be. He spoke with confidence, had wide experience as a superintendent and a wonderful personality. Tommy Witt, on the other hand, booted me off the 75th anniversary committee when he was president, claiming I "wasn't doing enough." I was incensed, not just because it wasn't true but because I suspected some politics at work. When I documented my contributions to both the 75th anniversary committee and also our local chapter 75th anniversary celebration, he reinstated me. We have had a cordial relationship since then.

I never met Ricky Heine or Tim O'Neill but went through a GCSAA mission/goals exercise with Dave Downing. He was sharp; he also was the one who called me about the Morley award – I'll always remember that call. Mark Woodard and Jon Madern are two others whom I missed knowing.

I met both Mark Kuhns and Bob Randquist when they came to speak at our Wisconsin Golf Turf Symposium, albeit years apart. Mark spoke about his clandestine tree removal program at Oakmont – fascinating! – and Bob gave an excellent lecture on bunker work, years before bunkers garnered the attention they have of late. To me, Bob Randquist embodies the highest personal qualities one could expect in a president; he should consider a run

for an office at the state or national level. Plus, the man can really sing.

I had to go out of my way to introduce myself to Jim Fitzroy in Orlando last year. Jim was walking down a hall in the convention center when I stopped him. He was very pleasant, significant because he has been our leader during an extremely difficult economy. I believe he has done well. He was another of those 1967 GCSAA scholarship winners.

Four years as an AA member has moved me away from the GCSAA somewhat, but past involvement lingers. I once had dinner with Sandy Queen at a GCSAA conference banquet – he was watching Dave Fearis' son while Dave and his wife sat at the head table. Once again, I came to know Pat Finlin during his years as editor of the Heart of America's chapter publication. Their histories tell me that they will do a good job as the GCSAA president.

Some time ago a GCSAA member went to considerable effort to detail what each GCSAA president "gets," – clothing allowance, travel, tournament attendance, etc. It was a fairly long list, but even that list times ten would not be enough to inspire a superintendent to serve as GCSAA president. A term as president takes a strong sense of leadership and duty, a huge work ethic and a vision of the direction our profession should go. It is an enormous job that demands a lot of each president, his family, his employer and his chapter. Very few among us is up to the task. Collectively, the presidents whose pictures hang on the walls of the association headquarters are quite a group.

It has been my pleasure and privilege to have known so many of them. **GCI**



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Turf leads a pretty stressed life. It has to withstand daily attacks by machines, UV rays, wildlife and extreme weather conditions. And if all that wasn't enough, there's always the constant threat of pathogens. New Daconil Action™ fungicide combines the power of Daconil® fungicide with a revolutionary Turf Protein Booster that helps turf activate its own natural production of PR proteins. The result is turf that is stronger, healthier and better able to defend itself against fungus and environmental stress like drought. Learn more at DaconilAction.com.

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TM

A BALANCING ACT

Chemicals or *au naturel*?
Superintendents discuss the merits of both when controlling unwanted aquatic weeds.

Ponds on golf courses represent different things to different people. For architects, it's a feature that can add to the aesthetic beauty and design of a golf hole – turning an easy par 3 into a frightening experience, or on a short par 5, forcing a player to choose the risk/reward choice of laying up short of the water hazard, or going for the green in two. For superintendents, these bodies of water, while beautiful to behold, represent just another course component they need to manage. Pond management is a low-cost item in budget dollars, but it's a line item that can't be neglected.

"You have to invest in your ponds," says Bernie Hertzman, president and owner of AMA Sales, a Toronto-based company that specializes in pond management for golf courses. "If you don't, you are just masking your problems. The more ponds you have, the more potential problems,

By David McPherson

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WATER ISSUES

and the more maintenance that is required.”

Superintendents should not take a short-term view to their pond issues. As Hertzman says, you need to invest in this asset for the best long-term results. Nor does he recom-

mend assigning this job to your summer seasonal help by telling them to throw on some hip waders and skim the pond; all that will result in is algae and a host of other problems coming back.

HOW I DO IT Controlling aquatic weeds with fish

At Westhaven Golf Club, we have been using Tilapia for the past three years in any water feature that has algae or duckweed problems. I researched information first and then contacted a few local fish suppliers to take a look and place bids. The fish are the only cost involved and run about \$250 per acre.

The fish suppliers deliver the fish in a truck, which we take to our lakes that are reachable, and then carry the rest in carts to the remaining water features. It takes the fish about three weeks to clean a pond completely, but you will see the amount of coverage on your lakes decrease week by week. Tilapia breed quickly and can easily double or triple the amount of fish you bought.

A word of warning: You must be careful if you have bass in your pond. The Tilapia are small and the bass will eat them. Also when the temperature drops down below 45 degrees, you will lose most of your fish and have a huge mess to clean up. To avoid this mess – and questions from members – we host a fishing tournament for our maintenance staff on a Monday when we are closed. This provides us another way to show our staff we appreciate them.

The tilapia have worked out great for us.

Josh Hastings is directory of agronomy at Westhaven Golf Club, Franklin, Tenn.



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Clover, thistle and hundreds of other tough weeds melt away with Millennium™ Ultra².



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