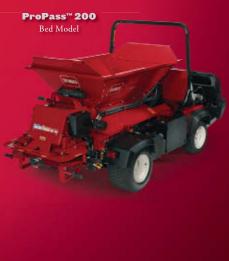
This health care plan provides complete coverage.





ProPass[™] 200 Tow Behind Model





Create vigorous turf and optimal playing conditions with the Toro' ProPass™ 200 and MH-400.

Healthier turf. Better playability. The new ProPass 200 Topdresser and MH-400 Material Handler make it easy to get both by accurately spreading everything from topdressing to fertilizer. An intuitive color-coded adjustment system ensures a consistent spread pattern and application rate every time. And a wireless controller lets you remotely control machine and accessory functions. The ProPass 200 is ideal for sensitive turf areas like greens and tees, and the MH-400 quickly converts from topdressing to hauling to placing materials with a pivoting conveyor option. Ask your Toro distributor to demonstrate the new ProPass 200 and MH-400 to achieve the picture of health on your course. **The right choice.**

www.toro.com/cultivation



Coordenation of the second sec

BY LARRY AYLWARD

It's one thing to make your golf course environmentally friendly. It's another thing to spread the word of what you're doing to benefit your course and the entire industry.

Picture

columns

- 4 Pin High Things Change ... And Stay the Same
- 8 From the Back Tees Are You Giving It Your Best Shot?
- 10 Turf M.D. It'd Be Nice to Take a Rest, But ...
- 44 Shack Attack The Sand Trap

departments

12 Hole of the Month

Turfgrass Trends

This month, *Golfdom*'s practical research digest discusses golf courses as bird habitats. A study examines home ranges and movements of Eastern Bluebird fledglings. **See pages 39-42.**

Online Exclusive

Check out this podcast and more at *www.golfdom.com/podcasts:*

Got Moss? – You might, considering it has been very active the past few years. Adam Manwarren,

Adam Manwarren

product manager of turf and ornamental for FMC Professional Solutions, talks about what you can do to control moss culturally and chemically.





30 Its Own Entity

Led in part by superintendent Dan Gho, Pacific Grove Golf Links shakes its "Poor Man's Pebble" label with revitalization effort. **By Larry Aylward**

About the cover

Art Director Carrie Parkhill, with help from photographs by Florida-based superintendent Joe Hubbard and *Golfdom*'s Larry Aylward, designed our collage of a cover to go with the "Picture This" theme.

35 Talking Herbicides

Manufacturers discuss herbicide technology now and in the future.

EXPERIENCE THE NEXT WAVE IN OVERSEEDING.



Learn more at www.turfco.com or order your FREE catalog at 800-679-8201.



The Industry's First & Only Proven Mole Bait

KILLS MOLES

Mimics a Mole's Natural Food Source

www.belllabs.com Available from your Bell Distributor

- Proven Effective
- Ready-To-Use

Bell



More Than Meets The Eye

Golfdom.com

Seven-time winner of the national Folio: Award for editorial excellence

EDITORIAL STAFF

Larry Aylward Editor In Chief 216-706-3737 Dan Jacobs Assistant Editor 216-706-3730 Carrie Parkhill Art Director 216-706-3780 Geoff Shackelford Contributing Editor Joel Jackson contributing Editor Anthony Pioppi Contributing Editor Ron Furlong Contributing Editor Christopher S. Gray Contributing Editor John Walsh Contributing Editor Jim Black Contributing Editor Karl Danneberger Science Editor Mike Klemme Photography laylward@questex.com djacobs@questex.com cparkhill@questex.com geoffshackelford@aol.com flgrn@aol.com apioppi@earthlink.net rfurlong5@gmail.com cgray@marvelgolf.com jwalsheditor@gmail.com greenkeeperjim@yahoo.com danneberger.1@osu.edu mike@golfoto.com

BUSINESS STAFF

CLEVELAND HEADQUARTERS 600 SUPERIOR AVENUE, EAST, SUITE 1100 CLEVELAND, OH 44114, FAX: 216-706-3712

Patrick Roberts PUBLISHER 216-706-3736 proberts@questex.com Dave Huisman NORTHERN SALES MANAGER 732-493-4951dhuisman@questex.com Jason DeSarle SOUTHERN SALES MANAGER 216-706-3758 jdesarle@questex.com Ric Abernethy

BUSINESS DÉVELOPMENT MANAGER 216-706-3723 Kevin Stoltman vice PRESIDENT 216-706-3740 Petra Turko SALES ASSISTANT 216-706-3768 Amber L. Terch PRODUCTION MANAGER 218-279-8835 Jamie Kleist PRODUCTION DIRECTOR 218-279-8855 Carol Hatcher AUDIENCE DEVELOPMENT 216-706-3785

GOLFDOM ADVISORY STAFF

Jim Barrett, ASIC JAMES BARRETT ASSOC Pat Blum COLONIAL ACRES GC Joe Boe WINDERMERE GC David Davis, FASIC DAVID D. DAVIS ASSOC

Shawn Emerson Desert Mountain Club John Gurke, CGCS AURORA CC Steve Hammon TRAVERSE CITY G&CC Jim Husting, CGCS WOODBRIDGE G&CC Jim Loke, CGCS

BENT CREEK CC Walter Mattison (IN MEMORY)

Steve Merkel, CGCS LANDSCAPES UNLIMITED Don Naumann, PRESIDENT SIERRA PACIFIC TURF SUPPLY

rabernethy@questex.com

kstoltman@questex.com

pturko@questex.com

aterch@questex.com

jkleist@questex.com

chatcher@questex.com

Jim Nicol, CGCS HAZELTINE NATIONAL GC

Rick Slattery LOCUST HILL CC Brit Stenson

IMG GOLF COURSE DESIGN

Bobby Weed, ASGCA WEED GC DESIGN

golfdom@theygsgroup.com

ilene@krolldirect.com

ERIFIED

chatcher@questex.com

MARKETING/MAGAZINE SERVICES

Reprints 800-290-5460 ext. 100 llene Schwartz CIRC. LIST RENTAL 216-371-1667 Subscriber, Customer Service 866-344-1315; 847-763-9594 OUTSIDE THE U.S.

366-344-1315; 847-763-9594 OUISIDE THE

CORPORATE

Kerry C. Gumas PRESIDENT & CEO Tom Caridi EXECUTIVE VICE PRESIDENT & CFO Tony D'Avino EXECUTIVE VICE PRESIDENT Gideon Dean EXECUTIVE VICE PRESIDENT

OFFICIAL PUBLICATION OF



American Society of Irrigation Consultants P.O. BOX 426 ROCHESTER, MA 02770; 508-763-8140; WWW.ASIC.ORG

Gol/dom does not verify any claims or other information appearing in any of the advertisements contained in the publication, and cannot take any responsibility for any losses or other damages incurred by readers in reliance on such content.

Golfdom welcomes unsolicited articles, manuscripts, photographs, illustrations and other materials but cannot be held responsible for their safekeeping or return.

Questex Media Group LLC provides certain customer contact data (such as customers' names, addresses, phone numbers and e-mail addresses) to third parties who wish to promote relevant products, services and other opportunities which may be of interest to you. If you do not want Questex Media Group LLC to make your contact information available to third parties for marketing purposes, simply call 866-344-1315; 847-763-9594 if outside the U.S. between the hours of 8:30 a.m. and 5 p.m. CT and a customer service representative will assist you in removing your name from Questex Media Group LLC's lists.

2

THE ARMY KNIFE OF TURF HERBICIDES



CRABGRASS • YELLOW NUTSEDGE • BROADLEAF WEEDS • TURF TOLERANCE • SPEED



NOTE: Includes bermudagrass labeling





800-821-7925 • pbigordon.com/q4plus

04[®], ProForm[®] & Checkered Flag/Label Design are registered trademarks of PBI/Gordon Corporation.



ven though we're well into it, I still can't believe it's 2010. Wasn't it just last week we were all fretting about Y2K? Just for fun, I recently paged through *Golfdom* issues from 2000. My,

how things have changed ... and stayed the same! And some things that were important 10 years ago ... well ... you just don't hear much about them anymore.

For instance, in 2000 we reported heavily on the Golf Course Superintendents Association of America's Professional Development Initiative, or "PDI," which we said "had the potential to reshape the employment future of every superintendent in the United States." At the time, we believed it did, and so did you. Well, PDI was passed and went into effect, but it surely didn't have the impact people thought it would.

There are the cobwebs left dangling by electronic commerce. In 2000, Golfsat.com and other companies tried desperately to get superintendents to purchase maintenance products online. *Golfdom* also featured stories on the subject. But one final word about e-commerce: Edsel.

Some things are working, though. In 2000, we reported The Toro Co. was developing a prototype greens mower powered by a fuel cell. Toro has developed that mower, which it says demonstrates the feasibility of hydrogen as a fuel for specialty application. In 2020, that mower, or others like it, could be a mainstay on golf courses.

While on the topic of greens mowers, in a 2000 story headlined "To Infinity and Beyond," we reported on what superintendents expected from tomorrow's greens mowers. Well, tomorrow is today and greens mowers have become more operator friendly, more fuel efficient and easier to maintain. OK, the mowers aren't cutting with laser "blades" yet, but who knows in another 10 years?

In a story on why more superintendents should use plant growth regulators, we asked a rhetorical question, "Why not use them?" Ten years later, we're certain that more superintendents than ever are using PGRs for myriad reasons.

And get this, in 2000 we reported that widely detested crabgrass may be able to clean up soil heavily contaminated with petroleum. Memo to BP.

Things Change ... And Stay the Same

BY LARRY AYLWARD



THERE ARE THE COBWEBS LEFT DANGLING BY E-COMMERCE We also reported on many economic issues in 2000. Of course, the economy was much different then, including the golf economy. We ran a story on how a healthy economy and a shrinking labor pool had attracted more headhunters to the industry. Considering that more courses have closed than opened in the past five years, I don't think those headhunters are hunting anymore.

Speaking of golf course openings, we reported in 2000 that California and Florida were tied for the most golf course openings in 1999 with 36 each. With a little luck, about 35 new courses will open nationwide this year.

Of course, many things have stayed the same since 2000. In his decade-old column, "Take That Cell Phone and Shove It," *Golfdom* columnist Joel Jackson expressed how perturbed he was that superintendents were getting up in the middle of meetings and seminars to answer their ringing cell phones. They're still doing that.

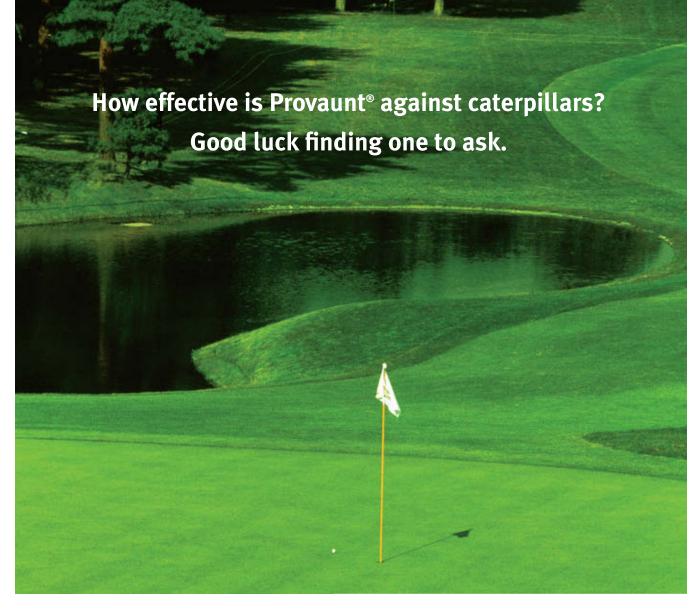
In 2000, we quoted industry legend Joe Duich, professor emeritus at Penn State University and turfgrass extraordinaire, as saying, "How are you going to get your members to repair ball marks? No way in hell you're going to do it." Something tells me Duich is still right.

Finally, in 2000 we offered results from our first survey of superintendents on the state of the profession. One of the questions asked was: What's the biggest challenge you face in your job? Fifty-eight percent answered "labor problems" and lamented about finding reliable employees.

But 10 years later, only 22 percent of superintendents say finding and retaining good employees is their No. 1 challenge. They're worried about other things, such as keeping their own jobs.

Thanks for taking this ride with me in the time machine. Let's do it again in 2020.

Aylward can be reached at laylward@questex.com.





Advanced chemistry that leaves caterpillars speechless.

DuPont[™] Provaunt[®] insecticide has earned high praise for its outstanding performance against turf and ornamental pests, including caterpillars and annual bluegrass weevils. Even with its low application rates, Provaunt[®] performs extremely well. What's more, the active ingredient in Provaunt[®] has a favorable environmental profile. Learn more by calling 1-888-6DuPont (1-888-638-7668) or by visiting us at proproducts.dupont.com. DuPont[™] Provaunt[®] Advanced chemistry. Outstanding performance.

DuPont Professional Products









There's cut quality. Then there's E-Cut[™] quality.

Discover the difference. Superior after-cut appearance. Lower fuel costs. And more. Contact your John Deere Golf rep or visit JohnDeere.com/Hybrid for all the details.



From the Back Tees

OPINION

recently heard a definition of happiness that went like this: "If you want to be happy for an hour, take a nap. If you want to be happy for a day, go fishing. If you want to be happy for a week, take a vacation. If you want to be happy for a month, get married. If you want to be happy for a lifetime, be happy at what you do."

Are you happy at what you do?

In July, I had the privilege to hear a keynote speech by motivational speaker Ken Futch at the Florida Fertilizer and Agrichemical Association's annual meeting. The title of this column is a shameless rip off of the title of Futch's book, "Take Your Best Shot."

How many keynote speakers have you heard who accidentally shot themselves in the head to jump start their way to success and happiness? It took a freak accident to make Futch consider how he was living his life. Then he wrote a book about it. Thanks to his insights, however, we don't have to go through that trauma to learn how to turn situations into opportunities to raise our job satisfaction and happiness.

Now, I didn't say it wouldn't take preparation, perseverance and, yes, even some lucky timing once in awhile. But if you keep looking for opportunities to showcase your strengths and talents, you can improve your chances significantly.

I know most superintendents are decent, hard-working, honest and loyal stewards of a golf club's assets. They pour their hearts and souls into their jobs. However, we're often weakest in promoting and marketing ourselves on what we accomplish.

When Futch talks about turning situations into opportunities, he could be talking about golf's current state, which offers myriad possibilities to do so. In that regard, below are some things to consider doing to make your club aware of what you know and do. You never know who will take notice and what doors may open up for you.

1. Negative local press and regulations concerning water, chemicals and fertilizers: Post a detailed bulletin on how you manage the irrigation

Are You Giving It Your Best Shot?

BY JOEL JACKSON



TAKING ADVANTAGE OF OPPORTUNITIES THAT COME OUR WAY IS A LEARNED PROCESS of the course, discussing daily system checks, technology, upgrades, etc. Do the same for chemicals and fertilizers – calibrations, actual acreage treated, spot treatments, spoon-feeding, etc. Never hesitate to inform your members of your stewardship and safety practices that protect people and the environment.

2. Communications: Find out the most advantageous time at your club to be more visible. Is it the putting green on Saturday morning, during men's or ladies' days during the week, or some other time? Use that time to talk informally about what's happening on the course. Take advantage of opportunities to play golf with board and committee members. Don't get too social — keep it friendly but professional. Yes, this borders on club politics, but politics are inevitable. Don't be an outsider when the going gets tough. Play golf with members when appropriate. Teachable moments will occur on the course.

3. Education: Provide constant and constructive feedback to crew members about performance, and the same to members and management about course conditions. Give nature and maintenance tours. Promote continuing education for you and the staff. Report back to members and management about what you learned that will be of value to the club. That goes for the Golf Industry Show and chapter meetings.

Taking advantage of opportunities that come our way is a learned process. But if you want to be successful and happy in life, isn't it worth giving it your best shot?

Certified Superintendent Joel Jackson is executive director of the Florida GCSA.

Learn more about our NEW Rain Bird® 751 Full- and Part-Circle Golf Rotors at www.rainbird.com/751

Now, a Full- and Part-Circle Rotor with real versatility.

That's intelligent.



Maximum versatility. Minimal effort. Introducing NEW Rain Bird® 751

Full- and Part-Circle Golf Rotors. As your irrigation requirements change, our NEW 751 rotors allow you to easily set, then switch between coverage arcs with a twist of the wrist. In addition to proven Rain Bird durability and distribution uniformity, the NEW Rain Bird® 751 Golf Rotors are a backward-compatible enhancement for your irrigation system. A truly versatile Full- and Part-Circle rotor. That's The Intelligent Use of Water.™



Go from part- to full- and back to part-circle operation with the turn of a screw.





urf maintenance in most of the United States this past year was extremely difficult and challenging. Starting with the snow (and ice) melt in late winter and early spring and continuing through the hot, humid, wet/ dry summer, turf loss became a way of life for many golf course superintendents.

The last thing I want to do is relive this past year (which may not be over yet). In fact, I wish I could take some time off to regroup and think about next season during the winter. But while a vacation may sound good, now is the time to look to the future.

What better time, while things are still fresh in our minds, to document improvements that need to be made to minimize turf loss and personal stress in the future. Turf loss can be a sign of where improvements need to be made. Here are some key indicators that need to be documented and, if budgets allow, corrected:

• Drainage — Starting with this past winter, several Northern golf courses suffered winter injury from continual ice cover and through freeze/thaw cycles. A major component of winter injury is water. Removing or reducing the potential for water freezing on the turf reduces the potential risk of winter injury.

These same areas where water accumulates or saturated soils exist are high-risk areas for pythium blight during the summer. Installing drainage reduces the likelihood of one or both of these problems. Although many courses experienced pythium blight along drainage lines, at least superintendents know where to target or spot treat in the future.

• Air movement — North Carolina State Turfgrass Professor Lane Treadway made this comment in July on a turf disease blog, "No Wind = No Grass." The lack of air movement increases canopy temperatures and decreases evapotranspiration, which spells death during hot, humid conditions. This is the time to mark out the trees that need to be removed from around greens, tees and

It'd Be Nice to Take a Rest, But ...

BY KARL DANNEBERGER



... NOW IS THE TIME TO ADDRESS TURF PROBLEMS THAT SO MANY SUPERINTENDENTS EXPERIENCED OVER THE PAST YEAR fairways to improve air movement. If tree removal is not an option, consider removing underbrush from wooded areas that may surround the green to promote some air movement or installing fans around greens that are especially stagnant.

Shade also plays a role in winter injury. Remembering or documenting where winter injury occurred can, in many instances, signal trees that need to be removed in the fall.

• Traffic — Identifying and correcting flow patterns where traffic injury occurred can help reduce turf decline in the summer. Wear injury is often a sign of the severity of summer stress. Around tees and greens, wear injury from golf cars may identify places to build new cart paths.

Entry and exit points from greens that show excessive wear may be a key to changing your crews' work-flow patterns. Cultural practices that enhance wear tolerance or minimize wear injury need to be implemented prior to the start of the summer stress. Changing practices when decline occurs has much less of an impact.

And, finally, there's wear injury because of golfers. This is a nice problem to have from a club operation point of view. But having a couple hundred rounds a day during summer stress periods causes damage agronomically. How we educate golfers on how they can help with this matter by being more aware is a challenge that doesn't start when turf loss begins.

It's just another reason to think about correcting these problems now.

Karl Danneberger, Ph.D., Golfdom's science editor and a turfgrass professor from The Ohio State University, can be reached at danneberger.1@osu.edu.