Dedicated to fighting evils, StressGard[™] Formulation Technology never rests.

Protect your course with the most powerful technology out there. When it comes to overall plant health, Bayer fungicides with *StressGard*[™] Formulation Technology give you control when it matters most. We've developed these products to work at a cellular level, strengthening turf and fighting against evil stressors like heat, drought and traffic. Anytime. Day or night. So you can sleep better knowing that you have the strongest, healthiest turf and happy golfers. At Bayer, we know you go above and beyond for your course. We have a technology that does too. **To learn more about how you can ensure great playing conditions, visit BackedbyBayer.com/StressGard**.



Bayer Environmental Science



Our five quality fungicides with StressGard Formulation Technology are proven to have preventive and curative properties against disease.

Tartan[®] | Chipco Triton[®] Flo | Interface[®] | Chipco[®] Signature[™] | Reserve[®]

Bayer Environmental Science, a division of Bayer CropScience LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. 1-800-331-2867. www.BackedbyBayer.com. Chipco, Chipco Triton, Interface, Reserve and Tartan are registered trademarks of Bayer. *StressGard* and Signature are trademarks of Bayer. Not all products are registered in all states. Always read and follow label instructions carefully. © 2011 Bayer CropScience LP.





Golfdom MAY 2011 • VOLUME 67 • NO.5

Learning more about secondary plant health benefits BY CLARK THROSSELL, PH.D.

columns

- 6 Reading Greens Ready for Your Luck to Turn Around
- 16 From the Back Tees On Strange Terms
- 18 Turf M.D. A Summer Forecast for Turf
- 48 Shack Attack Changing Lifestyles Hurting Country Clubs

departments

8 Off the Fringe National Golf Day storms Washington D.C., recounting the Tuscaloosa tornadoes, and *Golfdom*'s big day at TOCA.

12 Hole of the Month

47 Clark Talks Turf Clark Throssell, Ph.D., discusses goosegrass management with Scott McElroy, Ph.D.

Turfgrass Trends

This month, *Golfdom*'s practical research digest finds better reporting for NTEP data and how rethinking legumes can benefit your course. **See pages 41-46.**

Online Exclusive

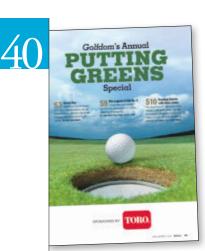
Stop by the Golfdom Daily (www.golfdom.blogspot.com) to check out behind-thescenes action at the 2011 U.S. Open during tournament week, and to participate in *Golfdom*'s U.S. Open fantasy golf contest, affectionately called the *Golfdom* HackOff.

27 Home Course Advantage

The team at Congressional CC treats the course like home and the crew like family. **By Seth Jones**

33 Path to Prettier Ponds

From plain 'ol fish to ultrasonic waves, there's a solution to the puzzle of maintaining ponds. By Ken Moum



About the cover

Our scientific gear (and model Eric Bowen)

were photographed at Lawrence (Kan.) CC, where Bill Irving is superintendent .

Special Supplement

It's a green day in our annual putting greens special. By Bob Seligman, Anthony Williams and Seth Jones

Unleash The Power!

ZAP Warm-Weather

Spurge, knotweed and clover are no match for the power of Surge® Broadleaf Herbicide For Turf. Energized with sulfentrazone, Surge has the power and speed to knock out tough broadleaf weeds fast. And it even suppresses yellow nutsedge! Visual results in 48 hours!

Your members will be pleased with the speed and performance. You'll be pleased with the economy of Surge's water-based amine formulation!

Put the power of Surge to work for you this year!

- F Energized with Sulfentrazone
- Warm Weather Weed Control
- 🗲 Rain-Fast in Just 6 Hours
- / Yellow Nutsedge Suppression
- / Labeled for Centipedegrass
- F Low Odor

BROADLEAF HERBICIDE FOR TURF

DANGER - PELIGRO

WATER

5113



An Employee-Owned Company 800.821.7925 surge.pbigordon.com

Surge is a registered trademark of PBI-Gordon Corporation ALWAYS READ AND FOLLOW LABEL DIRECTIONS

COMPLETE TURF NUTRITION ABOV R B

Folteć

ntec

The Andersons Complete TURF HEALTH SYSTEM





800-253-5296 www.AndersonsTurf.com

www.golfdom.com Golfdo Seven-time winner of the national Folio: Award for editorial excellence

EDITORIAL STAFF

Seth Jones EDITOR IN CHIEF 785-690-7047 Beth Geraci SENIOR EDITOR 216-706-3756 Carrie Parkhill ART DIRECTOR 216-706-3780 Geoff Shackelford CONTRIBUTING EDITOR Joel Jackson CONTRIBUTING EDITOR Anthony Pioppi CONTRIBUTING EDITOR **Clark Throssell** CONTRIBUTING EDITOR Anthony Williams CONTRIBUTING EDITOR John Walsh CONTRIBUTING EDITOR Jim Black CONTRIBUTING EDITOR Karl Danneberger SCIENCE EDITOR Mike Klemme PHOTOGRAPHY

sjones@questex.com bgeraci@guestex.com cparkhill@questex.com geoffshackelford@aol.com flgrn@aol.com apioppi@earthlink.net clarkthrossell@bresnan.net anthony.williams@marriott.com jwalsheditor@gmail.com greenkeeperjim@yahoo.com danneberger.1@osu.edu mike@golfoto.com

VERIFIED

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 732-4	193-4951 dhuisman@questex.com
Jason DeSarle SOUTHERN SALES MANAGER 216-7	706-3758 jdesarle@questex.com
Ric Abernethy BUSINESS DEVELOPMENT MANAGER 216-706-3723	rabernethy@questex.com
Kevin Stoltman VICE PRESIDENT 216-706-3740	kstoltman@questex.com
Petra Turko SALES ASSISTANT 216-706-3768	pturko@auestex.com

Amber L. Terch PRODUCTION MANAGER 218-206-2129 Amber.terch@superiormediasolutions.net

Jamie Kleist PRODUCTION DIRECTOR 218-206-2107

Jamie.kleist@superiormediasolutions.net Carol Hatcher AUDIENCE DEVELOPMENT 216-706-3785 chatcher@questex.com

MARKETING/MAGAZINE SERVICES

Reprints 800-290-5460 ext. 100	golfdom@theygsgroup.com
llene Schwartz CIRC. LIST RENTAL 216-371-1667	ilene@krolldirect.com
Subscriber, Customer Service	
866-344-1315; 847-763-9594 OUTSIDE THE U.S.	chatcher@questex.com

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

Golfdom 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.



GOLFDOM (ISSN 1526-4270) is published monthly (12 issues per year) by Questex Media Group LLC, 306 W Michigan Street, Suite 200, Duluth, MN 55802. Corporate office: 275 Grove St., Suite 2-130, Newton, MA 02466. Accounting, Advertising, Production and Oirculation offices: 306 W. Michigan St., Suite 200 Duluth, MN 55802-1610. Subscription rates: One year \$43 (U.S. and possessions), \$55 (Canada and Mexico) and \$98 (all other countries). Air expedited service is available in countries outside to U.S. and Canada for an additional \$75 per year. Current issue single copies (prepaid only) \$5 (U.S. and possessions), \$7 (Canada and Mexico) and \$8 (all other countries). Back issues (if available, prepaid only) \$10 (U.S. and possessions), \$14 (Canada and Mexico) and \$16 (all other countries); add \$6:50 per order shipping and handling for both current and back issue purchases. Periodicals postage paid at Duluth MN 55806 and additional mailing offices. DOSTMASTEP: Dease care darkings changes to Cardiform P.O. Bar V.Ba. \$10076-8268. Ca-

POSTMASTER: Please send address changes to Golfdom, P.O. Box 1268, Skokie, IL 60076-8268, Ca-nacian G.S.T. Number: 840032278/RT0001, Publications Mail Agreement number 40017597. Printed in the U.S.A. Copyright 2011 by Questex Media Group LLC. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy. recording, or any information storage and retrieval system, without permission in writing from the publisher. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific dients, is granted by Queste Media for libraries and other users registered with the Copyright Clearance Center, 222 Rosewood Dr., Danvers, MA 01923, phone 978-750-8400, fax 978-750-4470. Call for copy-ing beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. For those not registered with the CCC, send permission request to guestexpermissions@theygsgroup.com or 800-494-9051, ext 100.

Reflecting excellence in lake and pond management.

Becker Underwood, the expert in colorant technology, offers a complete line of innovative products to help keep your pond clean, clear and healthy.

 Admiral[®] Algae and Aquatic Plant Growth Control

Controls growth of several types of aquatic weeds and algae while aesthetically enhancing the appearance of the water.

Black Onyx[™]
Lake and Pond Colorant

High-concentrate colorant that creates a natural, mirror-like appearance often associated with black-colored water. • Lake Colorant WSP[®] Blue Lake and Pond Colorant

3 5 4 5

Premeasured, water soluble packets evenly disperse throughout the water, resulting in a natural blue color.

• LakePak[®] WSP[®] Biological Clarifier and Deodorizer

A proprietary blend of beneficial microbes effectively degrades excess nutrients to reduce foul odor and sludge in water for crystal-clear results.



ake Colorant WSP



akePak WSI



Admiral®, WSP®, and LakePak® are registered trademarks and Black Onyx" is a trademark of Becker Underwood, Inc., Ames, IA.

Reading Greens

EDITOR'S COMMENTARY

pril was a crazy month, and about the best thing you can say about it is that it's over. I travelled the States extensively in April and early May. Six trips in seven weeks. I went to Scottsdale, Ariz.; Atlanta and Augusta,

I went to Scottsdale, Ariz.; Atlanta and Augusta, Ga.; Cleveland; Washington, D.C.; Asheville, N.C.; then finally Charlotte, N.C. before returning home to Lawrence, Kan.

At almost every stop I met a superintendent or two who was in some state of disgust with the weather, with gas prices, with labor, with budgets.

I was also on the phone a lot, and heard even more telling stories there. A superintendent in Portland, Ore., told me that they had just endured the coolest, wettest April they had ever had. They know wet weather in Portland, but only four days with temperatures above 60 degrees? That just steps right on the throat of progress early on in what is going to be an important season for many golf courses.

The most telling story I heard was from a northern superintendent. We were having a nice conversation, but when I turned the conversation to "how's business up there?" his tone took a sudden sharp turn.

"It's just terrible – absolutely awful," he growled.

He told me their April was brutally cold. The biggest slap in the face had just happened to him that day. It was the next-to-last day of April, and the course was hosting the local chamber of commerce for a golf event. The weather started off cold and then turned colder, finally spitting snow at the shivering golfers.

The chamber of commerce waved the white flag and took their members into the clubhouse for an early lunch. The superintendent was beside himself. "Even the chamber of commerce can't pretend that they want to golf in the weather we've been having," he groaned.

The Ohio Turfgrass Foundation sent out a press release stating the severity the cool, wet April was having on turf where most of the *Golfdom* staff calls home. In many parts of the country the wet weather was pushing rivers beyond their limits. And in Texas, Oklahoma and parts

Ready for Luck to Turn Around

BY SETH JONES



LIKE DEAN SAID, "YOU HAVE TO TEST YOUR LUCK EVERY DAY, BECAUSE YOU MIGHT BE WALKING AROUND LUCKY ALL DAY AND NOT EVEN KNOW IT." of Arkansas and Louisiana, record drought.

It's not just the weather but also the economy. One superintendent told me that a few corporate events he used to count on at his course were once again cancelling. "Give us one more year to get back," they were telling him. Throw in those other outlying factors like rising gas prices, and you know even better than I do that this golf season stumbled in April.

Worst of all were the 300 tornadoes that wreaked havoc and killed hundreds in Tuscaloosa, Ala., and surrounding areas. It's like the bumper sticker reads: What's next? Gravity?

One of my favorite non-bumper sticker quotes is from sausage king Jimmy Dean. Dean was also known to sing a mean country song, but in my book, he's famous for producing the best breakfast sausage for what we call the "Jonesy scramble" at my house.

Mr. Dean once told a reporter for *Esquire* magazine, "You have to test your luck every day, because you might be walking around lucky all day and not even know it."

The good news is that April always leads to May. May 1st brought the breathtaking news of something I'll always remember: the announcement from President Barack Obama that Osama bin Laden was dead, shot twice by Navy Seals. How's that for starting a month off with a bang?

Superintendents across the country knew that they were in fact *not* lucky in the month of April. But the U.S. Open is right around the corner, signaling the most productive time of the year for golf. The news is even talking about gas prices dropping in the next few weeks.

So do like Mr. Dean said, and keep testing your luck every day. Eventually, it'll turn around. And when it does, you want to be ready.

Jones welcomes your e-mail: sjones@questex.com

Fairways that look so good your golfers will want more of them.

Concert[®] II fungicide is formulated to bring greens-grade quality to your fairways. Its broad-spectrum control offers protection against the most difficult turf diseases, including dollar spot, anthracnose, and gray leaf spot. The expanded label even includes landscape ornamentals. With contact and systemic activity as well as the active ingredients found in both Daconil[®] and Banner MAXX[®] fungicides, Concert II lets you give your fairways the care they deserve.



syngenta.

www.greencastonline.com/ConcertII

©2011 Syngenta Crop Protection, LLC, 410 Swing Road, Greensboro, NC 27409. Important: Always read and follow label instructions before buying or using these products. The label contains important conditions of sale, including limitations of remedy and warranty. Banner MAXX®, Concert®, Daconil®, and the Syngenta logo are registered trademarks of a Syngenta Group Company.

Par 22 2,460 . 2,447 2,426

NEWS WITH A HOOK

Off The Fring

Superintendents serve their profession at **National Golf Day 2011**

By Tim Connolly

ASHINGTON, D.C. — The positive energy was palpable during the recent National Golf Day activities on Capitol Hill, when golf's main organizations converged to engage members of Congress with powerful messages of the game's impact on their constituents.

We Are Golf, a coalition of the industry's top organizations, including the GCSAA, CMAA, NGCOA, PGA of America and the World Golf Foundation, is determined to put a face on the game.

"We're trying to let Congress know that when they make decisions on golf, to use us as a resource so we can provide them the necessary information so that they're not just making a decision in a vacuum," Rhett Evans, GCSAA CEO, said.

Jay Goughnour, owner and superintendent of Raccoon Valley Golf Course in Jefferson, Iowa, was there to talk disaster relief for golf courses. His nine-hole course was devastated by flooding in May of 2008.

"When natural disasters affect golf courses, courses should be treated like other small businesses and placed in the same playing field," he said.

Goughnour wants Congress to know that golf faces the same hardships as any other business in this economy. "There are a lot of courses that struggle to make ends meet. They employ a few people and they're great meeting places and valuable assets to the community, but they're not rich people. I own a nine-hole golf course and I can promise you I'm not rich. I'm just a hard-working individual."

Mike Barrett, CGCS, has been the superintendent at Argyle CC in Silver Spring, Md., for 15 years. For Barrett, We Are Golf's mission to put a face on the game is a key point. "I tell people that the survival and success of Argyle Country Club is paramount to me. It's how I make my living, how I support my family. I have 15 guys. That's how they support their families. People lose sight of just how important golf is. It creates jobs."

"When you look at politics, it's really local," Evans said. "There needs to be a grassroots effort. Just think what that would do to spread the word even that much faster. And that can be

done. It just takes some folks who are motivated."

Folks like the group of superintendents who served their profession in the nation's capital on National Golf Day.

> Tim Connolly is the assistant superintendent at TPC Potomac at Avenel Farm in Potomac, Md.

Rafael Barajas, CGCS, Robert Randquist, CGCS, and Rhett Evans, GCSAA CEO, share a laugh during National Golf Day.

CHAMPION DWARF BERMUDAGRASS

No-Till Greens Renovation™

Over the last 14 years, over 300 courses have had their greens converted to CHAMPION by Champion Turf Farms

AFFORDABLE

Savings of hundreds of thousands of dollars compared to conventional reconstruction

MINIMAL DOWNTIME

We routinely get courses back in play in less than 2 months – minimizing the greatest cost of performing a renovation – loss of play

INCREASED ROUNDS

Most of our clients report significantly increased numbers of rounds/increased revenues after converting their greens to Champion

AGRONOMICALLY SOUND

We have identified the rootzone properties that work best with the growth habit of Champion and we test your existing greens to compare against these parameters

GUARANTEED RESULTS

We conduct the necessary evaluations and testing as well as performing every installation ourselves to ensure your successful outcome

LONG TERM SUCCESS

Greens we installed over 14 years ago have retained their purity and still perform well today

THE BEST PUTTING SURFACE

No other bermudagrass can create the same ball roll as Champion. The growth habit of Champion combined with the correct system of agronomic management allows you to have putting surfaces that are second to none.

Specializing in Bermudagrass Greens since 1966



1-800-463-TURF (8873) www.championturffarms.com info@championturffarms.com

Off The Fringe

The tornado left a wake of destruction across the city.

Recounting the Tuscaloosa tornadoes

By Beth Geraci

ib Fox and his family huddled in a makeshift teepee in the center of their living room. Fox's two young children were oblivious to what was hap-

pening. But Fox and his wife knew darn well what they were dealing with.

A mile and a half away, the Tuscaloosa, Ala., tornado was touching down.

When the worst was over, Fox, the golf course superintendent at Tuscaloosa's Ol' Colony Golf Complex, stepped outside.

"It was black as night and eerily calm," he said. "Everybody says it sounds like a freight train. It sounds worse.





This thing sounded like a group of jets hitting the afterburners at the same time."

The tornado reportedly carved a path 300 miles long from Mississippi to Georgia, traveling at about

180 miles per hour. "We were looking at it as it passed and I was saying, 'This is bad,'" Fox said. "You could see it clear as day."

About a half hour after the tornado struck, as Fox stood in his yard marveling at the eerie calm, the winds picked up again — a second, smaller twister. It swept right over the golf course. "I could see it. It was spinning up the in the air

and I could see it," Fox marveled.

Like Fox's home and neighborhood, the golf course was spared damage. Other areas, however, were not so lucky. The death toll reached 41 in Tuscaloosa alone; 30 residents are still missing; and entire neighborhoods are obliterated.

"It looks like you took bulldozers and lined them up in a row and went to work," Fox said. "There's nothing left."

Golfdom Scores Big at 2011

We stop here briefly to sing our own praises (don't mind if we do). That's because we earned accolades at the Turf and Ornamental Communicators Association (TOCA) contest, bringing home awards for editorial content and graphic design.

Golfdom earned six first place awards, including honors for feature writing (for the story "Giving Thanks"); web writing ("A Golf Course Uplifts a Community"); special projects (Plant Health Report and Water Wise); and headline writing ("I'll Take a... Mulligan"). *Golfdom* also won first place for portrait photography with the June 2010 cover photo of Chris Dalhamer.

Golfdom also garnered two merit awards. "The Best of Both Worlds" won for environmental stewardship article, and

the 2010 Annual Putting Surface Guide won for special projects.

Seth Jones won merits for his work last year at *Golf Course Management* magazine, for his operations profile of Whistling Straits and for his cover story on Nick Price.

Congrats, team!

