# LOOKS LIKE A CLEARY DAY.

INSIST ON AUTHENTIC CLEARY TURF PRODUCTS:

3336 WP | 3336 Plus | 3336 F | 26/36 | Spectro 90 | Alude | Protect DF | TriStar 70 WSP | TriStar 30 SG | Endorse | Sentry | Limestone F | Grass Greenzit

Read and follow all label directions. The Cleary logo, 3336 and 3336 Plus are trademarks of Cleary Chemical Corporation. ©2007 Cleary Chemical Corporation.



# **Cleary.** Because great looking turf shouldn't be left to chance.

There's no room for guesswork when it comes to effective turf disease management. That's why superintendents everywhere have come to depend on Cleary's solutions to keep their fairways and greens healthy and beautiful. For over 70 years, we've played a big part in increasing turf quality and improving playing conditions on today's best looking golf courses. Backed by our tradition of excellence in product research, innovative formulation and unsurpassed customer service, Cleary turf products have become the disease control solutions you can count on for outstanding performance, day in and day out.

#### NEW 3336 PLUS™ with ClearTec™ Activation Technology provides up to 50% more disease control.

Fast becoming the standard by which all fungicides are judged, new 3336 Plus<sup>®</sup> power-packed with ClearTec<sup>®</sup> Activation Technology, provides **broad-spectrum disease control up to 50% longer** on tough fairway diseases. Re-engineered from 3336 (the fungicide superintendents have trusted for over 30 years), new 3336 Plus is a unique formulation breakthrough. 3336 Plus makes more effective use of the **active ingredient thiophanate-methyl**, resulting in longer lasting disease control when compared with the products containing the same active ingredient.

> Why leave your turf to chance? Discover all the advantages of 3336 Plus and our Solutions Program by contacting your local distributor or visiting **www.clearychemical.com**. We'll make you, and your course, look better than ever.



### Not Everyone Should Use Basagran T/O. Only Those Who Love

# better TURF



Obsessive about your turf? Try **Basagran® T/O herbicide**. For a fraction of the cost of a typical herbicide treatment for nutsedge, **Basagran T/O** provides effective, long-term yellow and annual nutsedge control on both cool- and warm-season turfgrass. Plus,



Basagran T/O can be easily tank-mixed with other herbicides to affordably increase their spectrum of control. So go ahead, show your love. With Basagran T/O.

#### Find out more: turffacts.com Find a turf care supplier: 800-545-9525

Always read and follow label directions.

asagran is a registered trademark and Better Turf and We Don't Make The Turf. We Make It Better. re trademarks of BASF. © 2007 BASF Corporation. All rights reserved. APN 07-14-002-0024

We Don't Make The Turf. We Make It Better.™



# Golfdom APRIL 2007 - VOLUME 63 - NO. 4

About the cover

We think this photograph from iStock International Inc. helps get across the theme for our greens maintenance guide. This month, *Golfdom* offers its annual putting surface guide. Our report hits on myriad topics, from the benefits of Champion bermudagrass to the maintenance associated with the newer bentgrass varieties.

#### GOLFDOM'S ANNUAL PUTTING SURFACE GUIDE

# 26 They champion Champion

The PGA Golf Club extolls the roll on its new ultradwarf bermudagrass greens. By Larry Aylward

# **Tried and True**

Newer bentgrass varieties boast lower inputs than older types. By David Frabotta

# 40 A Good Soak

Deep irrigation and hand watering will mitigate disease occurrences. By Peter Blais



47

### **Turf M.D.** Basal Anthracnose:

Springtime Ritual By Karl Danneberger

# 45 Any Way You Punch It

Agronomic objectives should determine aerification disease occurrences. **By Charlie Fultz** 

# Managing Moss

A new herbicide proves efficient in ridding greens of those problem clumps.

By Larry Aylward

## columns

- 8 Pin High RISE and Shine and Take Action
- 18 Shades of Green Against the Grain? Maybe Not
- 22 Designs On Golf From the Golden Age, With Love
- 72 Out of Bounds Everybody Loves Ramen

# departments

- 10 Big Picture
- 12 Off the Fringe
- 24 Hole of the Month
- 70 Classifieds

### **Turfgrass Trends**

This month, *Golfdom*'s practical research digest for turf managers discusses whether humic substances bolster water and nutrient availability. **See pages 51-58.** 

# GIS Coverage 61 Show Biz

The Golf Industry Show made its own headlines in L.A.-L.A. Land. By Larry Aylward and David Frabutta

For additional coverage, see **Pin High** column on page **8**, and **Shades of Green** column on page **18**. Also see "**Golf & the Environment**: **What's Next?**" on page **12** and "**Big News From the Big Three**" on page **14**. The Only Pro-Active Organic Predictable & Consistent PREMIUM GREEN

Premium Green Micro-Balance 0-0-10 PLENDED FOR Golf Courses a Snortsfields

**GRO**-POWER

CRA. PAWFA



**Other Quality GroPower Products:** Humus based fertilizer/ soil conditioner formulations 45% Magnesium • 35% Manganese

**Over 48 products to choose from!** 

Since 1966 (909) 393-3744 • www.gropower.com

# Have you received editorial coverage

When your company is featured in Golfdom, expecting your customers to read your story isn't enough... you need Reprints.



800-290-5460 ext. 100 golfdom@reprintbuyer.com

RMS is the authorized provider of custom Reprints, Eprints and NXTprints for Gold

# Golfdom www.anlfdom.com

#### EDITORIAL STAFF

Larry Aylward EDITOR IN CHIEF 216-706-3737 David Frabotta SENIOR EDITOR 216-706-3758 Kristen Morabito ART DIRECTOR 216-706-3776

Joel Jackson CONTRIBUTING EDITOR 407-248-1971 Anthony Pioppi CONTRIBUTING EDITOR 860-344-8895 Mark Luce CONTRIBUTING EDITOR 816-943-1923 Jim Black CONTRIBUTING EDITOR Karl Danneberger SCIENCE EDITOR Mike Klemme PHOTO EDITOR 580-234-8284

laylward@questex.com dfrabotta@questex.com kmorabito@questex.com

Geoff Shackelford CONTRIBUTING EDITOR 310-451-5877 geoffshackelford@aol.com flgm@aol.com apioppi@earthlink.net mluce@sbcalobal.net greenkeeperjim@yahoo.com danneberger.1@osu.edu mike@golfoto.com

#### **CLEVELAND HEADQUARTERS**

600 SUPERIOR AVENUE, EAST SUITE 1100 CLEVELAND, OH 44114

#### OFFICIAL PUBLICATION OF



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

#### GOLFDOM ADVISORY STAFF

Jim Barrett, ASIC JAMES BARRETT ASSOCIATES

Pat Blum COLONIAL ACRES CC

Joe Boe WINDERMERE GC

Terry Bonar CANTERBURY GC

**Bill Coore, ASGCA** COORE & CRENSHAW

David Davis, FASIC DAVID D. DAVIS ASSOCIATES

**Tripp Davis** P DAVIS AND ASSOCIATES

Michelle Frazier-Feher, CGCS

Charlie Fultz SHENVALEE GOLF RESORT

John Gurke, CGCS AURORA CO

**Steve Hammon** TRAVERSE CITY G&CC

Jim Husting, CGCS WOODBRIDGE G&CC

Robb Dillinger, CGCS MUNIE OUTDOOR SERVICES

Jim Loke, CGCS BENT CREEK CC

Walter Mattison (IN MEMORY)

Steve Merkel, CGCS LANDSCAPES UNLIMITED

Jim Nicol, CGCS HAZELTINE NATIONAL GC

**Steven Numbers** WESTEIELD CC

**James Simonini** ROBERT TRENT JONES II

Bobby Weed, ASGCA WEED GOLF COURSE DESIGN

#### ASSOCIATIONS



American Society of Golf Course Architects 125 N. EXECUTIVE DR., SUITE 106, BROOKFIELD, WI 53005; 262-786-5960; WWW.ASGCA.ORG

#### **Golf Course Superintendents Association of America**

1421 RESEARCH PARK DR., LAWRENCE, KS 66049-3859; 800-472-7878; WWW.GCSAA.ORG

#### **Golf Course Builders Association of America**

727 "O" STREET, LINCOLN, NE 68508; 402-476-4444; WWW GCBAA ORG

National Golf Course Owners Association 291 SEVEN FARMS DRIVE, SECOND FLOOR, CHARLESTON, SC 29492; 843-881-9956; WWW.NGCOA.ORG

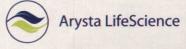


Responsible Industry for a Sound Environment 1156 15TH ST. NW, SUITE 400, WASHINGTON, DC; 202-872-3860; WWW.PESTFACTS.ORG NEW DISARM<sup>™</sup> BECAUSE SPEED IS OF THE ESSENCE.

When you're faced with the threat of brown patch, gray leaf spot, anthracnose and other turf diseases in your fairways and greens, you need the proven performance of new DISARM<sup>™</sup> Fungicide. Unlike most strobilurin fungicides, DISARM features fast penetration of leaf surfaces, rapid translaminar movement and enhanced systemic activity for longer-lasting residual control and complete leaf and crown protection. Plus, it's rainfast in as little as 15 minutes. Add it all up and DISARM gives you performance that's equal to or better than the leading strobilurin. To learn more, visit www.arystalifescience.us/disarm or call 1-866-761-9397.



Always read and follow label directions. DISARM and "The Hyperactive Fungicide" " slogan are trademarks of Arysta LifeScience North America Corporation. The Arysta LifeScience logo is a registered trademark of Arysta LifeScience Corporation. © 2006 Arysta LifeScience North America Corporation. DISM-008



Harmony In Growth

### www.golfdom.com



#### We Want to Be Your Favorite Information Source, Not Just Your Favorite Magazine

We're happy that you're reading *Golfdom* magazine. But please keep us in mind when you're searching for information through other avenues, including online. We have an array of online products to offer you, including Web sites and e-newsletters.



< turfgrasstrends.com







< Chip Shots

### - April's Online Exclusive

Read this story only at www.golfdom.com/onlineexclusive:

Brian Goodwin's Good Cause
By Larry Aylward

# Golfdom

#### BUSINESS STAFF

Patrick Roberts PUBLISHER 216-706-3736	proberts@questex.com
Petra Turko SALES ASSISTANT 216-706-3768	pturko@questex.com
Natalie Lepien PRODUCTION MANAGER 218-279-883	36 nlepien@questex.com
Rhonda Sande PRODUCTION DIRECTOR 218-279-88	21 rsande@questex.com
Antoinette Sanchez-Perkins	
AUDIENCE DEVELOPMENT 216-706-3750	asanchez-perkins@questex.com

#### ADVERTISING STAFF

CLEVELAND HEADQUARTERS 600 SUPERIOR AVENUE, EAST, SUITE 1100 CLEVELAND, OH 44114

Kevin Stoltman GROUP PUBLISHER 216-706-3740 FAX: 216-706-3712	kstoltman@questex.com
Gerry Bogdon NATIONAL ACCOUNT MANAGER 407-302-2445 FAX: 407-322-1431	gbogdon@questex.com
Dave Huisman REGIONAL SALES MANAGER 732-493-4951 FAX: 732-493-4951	dhuisman@questex.com
Kelli Harsany ACCOUNT EXECUTIVE, CLASSIFIED 216-706-3767 FAX: 253-484-3080	kharsany@questex.com

#### MARKETING SERVICES

Reprints 800-290-5460 ext. 100	golfdom@reprintbuyer.com
llene Schwartz CIRC. LIST RENTAL 216-371-1667	ilene@krolldirect.com
Subscriber, Customer Service 866-344-1315; 615-377	7-3322 questex@sunbeltfs.com
Books, Directories, Current Issues, Back Issues,	

Photocopies, CD-Rom 866-344-1315; 615-377-3322

#### CORPORATE

QUESTEX

Kerry C. Gumas PRESIDENT & CEO

Tom Caridi EXECUTIVE VICE PRESIDENT & CFO

Robert S. Ingraham EXECUTIVE VICE PRESIDENT - TRAVEL & BEAUTY GROUP

TONY D'Avino VICE PRESIDENT & GENERAL MANAGER - INDUSTRIAL & SPECIALTY GROUP

Don Rosenberg vice president & general manager - Home entertainment group

Seth Nichols VICE PRESIDENT, DIGITAL MEDIA

Robert Rybak VICE PRESIDENT, PUBLISHING OPERATIONS

Diane Evans vice PRESIDENT, HUMAN RESOURCES

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 materi als but cannot be held responsible for their safekeeping or return.

Questex Media 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 to make your contact information available to third parties for marketing purposes, simply call toll-free 866-344-1315 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's lists. Outside the United States, please phone 615-377-3322.





# A new solution for *Turfus compactii*.



Thicker and stronger turf. That's what you get with T-NEX 1 AQ from Quali-Pro. Containing the same active ingredient as Primo' Maxx," T-NEX will make your grass greener and reduce the number of mowings, which saves labor, fuel, and time. Additionally, T-NEX is the perfect pre-stress conditioning choice for the coming season. When you want your course at its best, use T-NEX from Quali-Pro — another excellent addition to the industry's most comprehensive product portfolio.

For more information about Quali-Pro products, call 800-979-8994 or visit www.quali-pro.com.



#### **PROFESSIONAL TURF & ORNAMENTAL PRODUCTS**

©2007 FarmSaver.com, LLC, Quali-Pro is a registered trademark of FarmSaver.com. T-NEX is a trademark of FarmSaver.com. Primo Maxx is a registered trademark of Syngenta Crop Group. Always read and follow label directions. Professional products, performance and people, backed by the strength of Makhteshim-Agan Industries, the world's leading manufacturer and distributor of post-patent agrochemicals.

Experience the ProPoints Difference - More Points, Faster Rewards. Register today at www.propointsonline.com.



he breakfast buffet held by the Responsible Industry for a Sound Environment (RISE) at the Golf Industry Show in February included bacon, eggs and a call to action. The bacon was crisp, the eggs were delicious and RISE's call to

action was clear: Pesticide makers and users need to get on the offensive in the battle against reform environmentalists who could put the industry out of business.

Of course, these reformers would contend that they only want golf courses to stop using pesticides. Imagine if all golf courses stopped using pesticides. That would be like McDonald's taking hamburgers off its menu. Both actions would ruin both businesses.

Nothing against the few courses that use little or no pesticides, but an industry-wide pesticide ban would put the golf industry out of operation faster than you can say propiconazole. Do you think the average Joe Country Club — the guy who reveres lush green fairways and impeccable greens and spends thousands to expect them would tolerate weeds on the tees, brown fairways and diseased greens?

Back to the RISE breakfast. If you don't know, RISE is the lobbying organization that defends your use of pesticides on golf courses, not to mention pesticide use in homes and schools. A no-nonsense gentleman named Allen James is president of the group, and its members include the companies that manufacture and market the products that superintendents use.

RISE has a full agenda these days, considering that Democrats are now in control of the House of Representatives and the Senate. "If there's a dream team in basketball, there's a dream team in Congress as far as environmental activities go," James said, citing Sen. Harry Reid (D-Nevada), Sen. Barbara Boxer (D-Calif.), Sen. Ted Kennedy (D-Mass.) and Rep. Harry Waxman (D-Calif.) as thorns in the pesticide industry's side.

Considering their views on pesticides, some of those Democrats must have lousy-looking lawns and mice running around in their basements. But enough about them.

This issue is about the people who sell and use pesticides. It's time to stand up and be heard. It's

# **RISE and Shine** and Take Action

#### BY LARRY AYLWARD



IMAGINE IF ALL GOLF COURSES STOPPED USING PESTICIDES. THAT WOULD BE LIKE MCDONALD'S TAKING HAMBURGERS OFF ITS MENU all right for you to grumble among yourselves about the pesticide detractors, but it's also time to take your message to the streets.

And you don't have to go to Capitol Hill to voice your opinions, as Allen points out. You can do it at the city council or township meetings in your hometowns. You can educate others — from local government leaders to think-they-know-itall homeowners — that pesticides can be used safely and beneficially. Why will they believe you? Because you are the educated experts when it comes to pesticide use. You use facts, not rhetoric.

Stacey Pine, RISE's manager of Grassroots Issues, is in charge of combating the activists at the local level. Pine says it's easier for activists to advance their anti-pesticide message at that level because they face less bureaucracy. But with 85,000 local municipalities in the country, Pine needs your help to monitor and combat anti-pesticide activity in those areas. Give her a call to see how you can help.

But this isn't just about helping Pine and RISE. It's about helping yourself and the golf industry. It's about proving that you manufacture and use pesticides sensibly.

There's one thing that irks me about this issue more than a telemarketer's call during an episode of "24." It has to do with our second-guessing politicians. On one hand you have a government entity — the Environmental Protection Agency — endorsing pesticides for use after a seemingly painstaking approval process to make sure they are safe. On the other hand you have members of Congress contradicting the EPA's decisions by bashing pesticides.

This is where you come in. This is where your knowledge on the topic can hush the fast-talking politicians.

Aylward can be reached at 216-706-3737.

IT HAS BEEN OVER 10 YEARS SINCE CHAMPION USHERED IN THE NEW "ULTRADWARF" BERMUDAGRASSES.

IN 2006, MORE COURSES PLANTED CHAMPION THAN ANY OTHER BERMUDAGRASS CULTIVAR.

WHY HAS CHAMPION BECOME THE MOST WIDELY-UTILIZED ULTRADWARF BERMUDAGRASS?

Of all the courses that planted CHAMPION in 2006, over two-thirds reported that they went out and played on greens of each of the ultradwarf cultivars before making their choice. In each case they stated that they chose CHAMPION because

CHAMPION greens produced "THE BEST PUTTING SURFACE".

Today there are well over 1,000 acres of CHAMPION greens in the United States.

If you are considering an ultradwarf Bermudagrass for your greens, we encourage you to compare the putting surface of CHAMPION to the other Bermudagrass cultivars.

> A COMPLETE LIST OF COURSES WITH CHAMPION GREENS CAN BE FOUND AT WWW.CHAMPIONTURFFARMS.COM



The Proven CHAMPION

# The Big Picture

TIDBIT OF THE MONTH

#### Florida Forecast: A Few Hotbeds

Bucking national trends, Lee and Collier counties in Florida continue to see growth in new golf courses. Slated to open in fall 2008 are Cypress Shadows in Naples, a Lennar housing development with a Gordon Lewis-designed semiprivate layout; and the 1,229-acre Palermo project in North Fort Myers, a Beazer Homes development that will feature a public Lewis-designed 18-holer. Debuting this fall is The Plantation, which will boast a Michael Hurdzan-designed private 18 holes. Also, River Hall at Hawk's Haven in Fort Myers, a Landmar Group project, will unveil a Davis Love III-designed private course in November. For details on these and other golf projects around the country, visit www.golfconstructionnews.com.

COURTESY OF:



#### Silence the Snivelers

So you have a guy on your crew who's a chronic complainer about everything. This guy whines more than your 5-yearold when you take away his Game Boy. However, you must deal with him for the sake of your own sanity, not to mention to benefit the entire crew. Here's how:

Try to move to a problem-solving mode by asking him to suggest alternatives with questions like,

#### "What results are you trying to achieve?"

Or

#### "How would you like to see this resolved?"

Complainers tend to stop complaining when put in a position of responsibility for solving the problem.

### **Golf Rounds Played**

The percentages below represent the difference in number of rounds played in January 2007 compared to the number of rounds played in January 2006.

REGION	JANUARY	Y.T.D.
New England ME, VT, NH, MA, RI, CT	2.6%	2.6%
Middle Atlantic NY, PA, NJ	-28.3%	-28.3%
East North Central MI, OH, IN, IL, WI	-53.8%	-53.8%
West North Central ND, MN, SD, NE, KS, IA, MO	-67.9%	-67.9%
South Atlantic WV, DE, MD, VA, NC, SC, GA	-4.8%	-4.8%
Florida	-1.7%	-1.7%
East South Central KY, TN, AL	-32.8%	-32.8%
West South Central OK, AR, LA	-44.4%	-44.4%
Texas	-46.1%	-46.1%
Mountain MT, ID, WY, NV, UT, CO, AZ, NM	-24.1%	-24.1%
Pacific wa, or, ak, hi	-2%	-2%
California	-1.6%	-1.6%
TOTAL UNITED STATES	-16.3%	-16.3%

GOLF DATATECH

### Night, Night

Superintendents arrive at work before most people crawl out of bed. Knowing that, we here at *Golfdom* want you to rise and shine. And to  $\star$ "shine" is to get a good night of sleep. Here's how:

- \* Don't do an espresso or a caffeine-laced drink within six hours to eight hours of bedtime.
- \* Avoid nicotine close to bedtime.
- \* Don't drink alcohol within two hours to four hours of bedtime. A beer or two may help you fall asleep, but will cause poorer quality of sleepand more nighttime waking:



 Avoid eating big, greasy and spicy meals before bedtime. Translation: No late runs to Taco Bell! However, a light snack composed mostly of carbohydrates can help promote sound sleep.

\* Don't nap late in the afternoon or evening. If you choose to nap, \*do it early in the afternoon and limit it to 30 minutes or so. (We know you don't have time to nap. But if you do, keep this point in mind. Also, find a place where you can't be found!)

SOURCE: CIGNA AND GOLFDOM