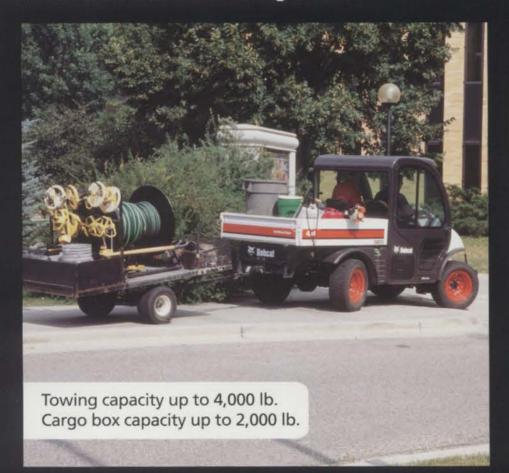
#### A fleet of one.

Other machines are dedicated to one job. The Toolcat<sup>™</sup> 5600 is dedicated to *every* job.



Bobcat attachments available.

Toolcat 5600 with Bobcat angle broom



Toolcat 5600 hauling and towing turf tools



Toolcat 5600 with Bobcat sprayer



Toolcat 5600 with 72 in. Bobcat mower





Our website: www.bobcat.com/0387

Toll-free for FREE Video Catalog and Buyer's Guide: 1-866-823-7898 ext. 0387

**Bobcat Company** 

P.O. Box 6000 • West Fargo, ND 58078

USE READER SERVICE #10

An (IR) Ingersoll Rand business

## Endorse Turf Fungicide Your Best Friend Against Snow Mold

ENDORSE

Weight 11 Pe

CLEARY

#### Now, Snow Mold Control Without Root Pruning

Endorse<sup>™</sup> fungicide, with its unique mode of action, provides foliar and translaminar systemic activity for superior control of Pink and Gray Snow Mold.

Extensive research continues to show that Endorse and Spectro<sup>™</sup> 90 WDG applied as a tank mix will provide excellent control for both Pink and Gray Snow Mold even under the harshest conditions.

The combination of these two effective products not only provides excellent disease control, but also avoids the traditional root pruning often seen with applications of PCNB.

Cleary recommends that appropriate fungicides be applied prior to the application of the Snow Mold Program to ensure good hygiene (i.e. that the presence of fungal organisms are killed or greatly reduced.)

Not only will Endorse + Spectro provide you with effective control, but also this combination is less expensive than many other

programs recommended by competitors. These programs often contain combinations of three or more fungicides including PCNB, a significant root pruner.

#### The Endorse Advantage

Count on Cleary Chemical to provide superintendents with the most effective fungicides for Snow Mold control backed by more than 65 years of commitment to the industry. Endorse + Spectro – Your best insurance value for effective Pink & Gray Snow Mold control.

For more information about Cleary's **Solutions Programs**, call 1-800-524-1662.

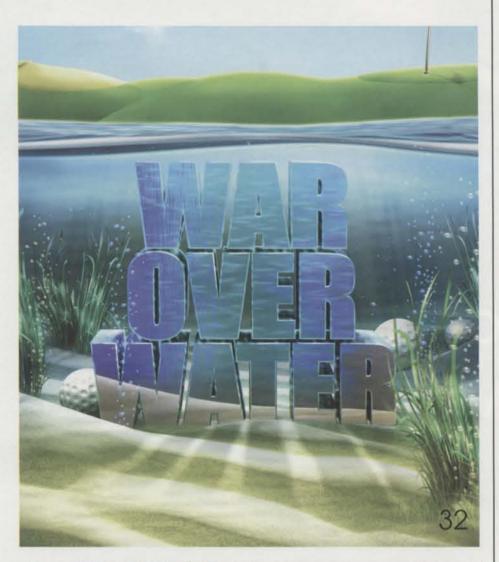
#### www.clearychemical.com



Read and follow all label directions. The Cleary logo and Spectro are trademarks of Cleary Chemical Corporation. Endorse is a trademark of Arvesta Corp. @2004 Cleary Chemical Corporation.

USE READER SERVICE #11

#### contents







#### Course management: features



32 As the use of water on golf courses becomes a bigger concern for legislators, superintendents need to promote their best water-management practices to combat a negative public image.

#### 46 THE RIGHT RELATIONSHIP

An effective green chairman knows his role and understands the superintendent's role as well.

#### Design solutions: feature

#### 38 RESTORING A CLASSIC

Century-old Midlothian Country Club in Illinois relocates bunkers – some of which were out of play – to update its course.

#### Personnel management: feature

#### 42 EXPERIENCED HELP

Hiring retirees to work on the golf course maintenance staff at The Sharon Golf Club in Ohio is positive for both the employer and the employees.

#### Course maintenance: features

#### 28 TOURNAMENT PREP

David Swift, golf course superintendent of the Straits Course at Whistling Straits in Wisconsin planned ahead and received assistance from volunteers and suppliers to prepare for the PGA Championship.

#### 54 DISEASE CONTROL

Keeping current with fungicides and agronomic programs helps control pathogens and meet golfers' expectations.

#### Course technology: feature

#### 50 UNWIRED

Gaps in wireless irrigation systems need to close before they gain complete acceptance.

# Preveni Poel

## and they can't blane you!

Keep your greens *Poa*-free and they'll be looking for another excuse for their missed putt.

Fall prevention is the secret to smooth greens in the Spring. With weeds like *Poa*, goosegrass, and crabgrass your best control strategy is prevention – just don't let 'em get started.

Extensive trials throughout the United States have demonstrated the effectiveness of Bensumec<sup>™</sup> 4 LF and Pre-San<sup>®</sup> Granules for control of crabgrass,

GRANULAR 7G		
Statute Instance Instance and Instance Energy in S	An Annual State of Deligner	
WARtehold	EET	
Cartal D.S.	C. C. Corter	
Ontrates		
	a Marine Marine	
Concession in the local division in the loca		
	CITTE:	
State Inc		
Self- And	State Street	
S. 15-		
NET WEIGH	HT 40 POUNDS	

goosegrass, annual bluegrass and many other undesirable grasses and broadleaf weeds.

> Both Bensumec<sup>™</sup> and Pre-San<sup>®</sup> provide the two key preemergent benefits on your greens: highly effective weed control and high turfgrass tolerance.

Stop your *Poa* annua problem before it starts and they won't be blaming you.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS



Data from the most recent university trials can be viewed on our web site - or call for a copy.

S BETASAN

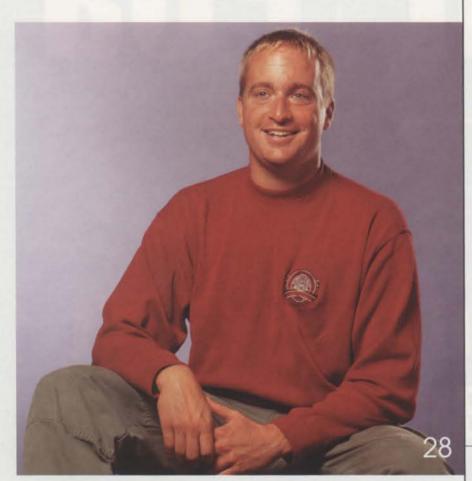
CAUTION

#### 1-800-821-7925 • www.pbigordon.com

Bensumec is a trademark of PBI/Gordon Corporation. Pre-San is a registered trademark of PBI/Gordon Corporation. Bensumec and Pre-San contain Betasan. Betasan is a registered trademark of Syngenta Crop Protection, Inc.

USE READER SERVICE #12

#### contents







#### Up front: in every issue

- 8 EDITORIAL Get shorty
- 10 RESOURCES Calendar of events
- 13 INDUSTRY NEWS Association, course, supplier and personnel news
- 64 PRODUCTS New, signage and markers, engines, wildlife management
- 69 ADVERTISING INDEX

#### 70 MAKING A DIFFERENCE The Sticks for Kids Foundation

#### Columnists:

- 24 MARKETING YOUR COURSE Jack Brennan: Grand openings
- 25 DESIGN CONCEPTIONS Jeffrey D. Brauer: Drainage demystified
- 26 ADVANCING THE GAME Jim McLoughlin: Real job security

#### Research:

#### 58 ANALYZE THIS

Assessing soil physical properties helps determine strategies for improving greens.

#### Visit us online

VISIT WWW.GOLFCOURSENEWS.COM

FOR DAILY NEWS UPDATES

FOR A SUBSCRIBER MESSAGE BOARD

FOR ARCHIVED ISSUES

FOR PRODUCT DATABASE

GOLF COURSE NEWS (ISN 1054-0644) is published in February, April, June, September, Ocrober and November. Copyright 2004 GIE Media Inc., 4012 Bridge Ave., Cleveland, OH 44113-3399. All rights reserved. No part of this publication may be reproduced or transmitted by any means without permission from the publisher. One-year subscription rate, \$33 in the United States, \$42 in Canada and Mexico, and \$88 in other foreign countries. One year foreign airmail rate; \$102. Two year subscription rate: \$65. Subscriptions and classified advertising should be addressed to the Cleveland office. Periodicals postage paid at Cleveland, Ohio, and additional mailing offices. Postmaster: Send address changes to *GOLF COURSE NEWS*, 4012 Bridge Ave., Cleveland, OH 44113-3399.

## Only Extinguish® Plus Gives 'em Both Barrels.

Fast acting. Long lasting. Extinguish Plus is the only dual-action bait that kills adult fire ant workers and sterilizes the queen.

Blow away fire ants before they take another bite out of your assets. These little buggers account for nearly \$6 billion\* of damage annually in the United States. Extinguish Plus gives you the double barrel approach to fire ant control with an adulticide to knock 'em down and an insect growth regulator (IGR) for long lasting results. Unsuspecting workers take the bait back to the mound as food, eat it and die. They also spread it to the queen effectively eliminating colony growth and relocation. Extinguish Plus is fire ant ammo approved for indoor and outdoor use where fire ants are a problem.



Aim for superior results, reduced costs and dead fire ants. For more information, contact your local distributor, call 1-800-248-7763 or visit www.wellmarkinternational.com.

©2004 Wellmark International Extinguish Plus is a registered trademark of Wellmark International. Always read and follow label directions.



#### **IJOHN WALSH**



ecitorial

John Walsh Editor

## Get shorty

G olf has been in a growth spurt – just look at the numbers. In 1970, there were about 11 million players. Presently, there are about 26 million. Thanks in part to captivating profession-

als like Tiger Woods, the game has never been more popular. Still, popularity doesn't necessarily translate to participation.

In fact, there's room to increase participation, and many individuals and associations are working toward that goal. The PGA of America, through its Play Golf America program, and the Golf Course Builders Association of America, through its Sticks for Kids Foundation, are encouraging more people to golf – and golf more frequently. Another initiative, the First Tee, which encourages young people to develop character and solid values through golf, currently has 125 chapters and 154 facilities throughout the country.

Such programs teach newcomers the game's rewards, as well as basics like etiquette, including speed of play. This issue of time is a considerable factor affecting participation. Some people say they don't have enough time to play golf, or they say the game takes too long to play.

As a result, some in the industry, including architects, have suggested focusing on courses that are fewer than 18 holes and 18-hole courses that are considerably shorter than 7,000 yards. This would take some creative marketing to work. "Culturally, we have to overcome the perception that you're not a wimp for not playing 18 holes," said MG Orender, president of the PGA of America, at the GCBAA's annual summer meeting.

Nine-hole courses present the challenge of maintaining profitability. Because green fees correlate with the cost of building and maintaining a course, a shorter course is less expensive to play. This benefits those players who say the cost of golf is another reason why they don't play, or at least play as much as they'd like.

A less expensive course fits the portion of the golfing public that wants to play nine holes. Owners might not be fond of golfers playing a round of nine because it's cheaper than a round of 18, but a round of nine is better than no round at all. The payoff for owners is more players, more often.

Nonetheless, shorter courses – nine holes or 18 – buck the industry trend of developing 18-hole championship courses. Some of the 200 golf courses that will open this year are longer than 7,400 yards, with as many as five sets of tee boxes. These courses cater to the better-conditioned golfers who hit the ball farther because of more instruction, better equipment, and more playing opportunities through more courses and tournaments.

Statistics show that in 1980, a professional golfer's average drive was 257 yards, compared with the current average of 286 yards, according to Doug Winfield, a mechanical engineer who designs golf equipment. This is because of more consistent golf balls with 300 to 500 dimples instead of the old standard of 336. New clubs, which are longer, lighter and lower-lofted than older models, also contribute to longer driving distances.

Course conditions, such as lower-cut greens and fairways, increased drainage and easier bunkers in which to play, also contribute to longer courses.

Golfers are hitting balls farther, yet many don't have time to play 18 holes regularly or courses that are longer than 7,000 yards. The executive short course could be part of a growing trend of developing shorter courses to allow busy people to play golf more quickly, more often and less expensively.

Some already have found success with this model. Outside San Francisco in Dublin, Calif., a Taiwanese real-estate developer, R.S. Lin, built the 18-hole Dublin Ranch Golf Course, which plays 4,331 yards from the front tees and 4,791 yards from the back tees. However, it isn't inexpensive because of things like maintaining 8,000-square-foot greens. But the concept behind the par-63 course was to develop one that could be played in three-and-a-half hours or less.

The industry is filled with smart and creative individuals who can address golfers' time and cost challenges through changes in course design, development and maintenance, whether on new or existing courses. If this happens, the industry likely could witness more courses like Dublin Ranch open – courses that experienced and novice golfers can enjoy.

Having more golfers in general is a worthy goal, not just increasing the number of 18-hole rounds played. Getting more people involved, and staying involved, in the game, regardless of ability, is better business for all courses, no matter what the length. GCN



Vol. 16 No. 5

Editorial Offices:

GIE Media, Inc. 4012 Bridge Ave. Cleveland, OH 44113 Phone: (216) 961-4130 Fax: (216) 961-0364

John Walsh Editor E-mail: jwalsh@giemedia.com

Lauren Spiers Associate Editor E-mail: Ispiers@giemedia.com

CONTRIBUTING WRITERS

Butch Horn E-mail: ahorn@charter.net

Kovin Ross, CGCS E-mail: kjross@vail.net

David Wolff E-mail: dgwolff@charter.net

EDITORIAL ADVISORY BOARD

Terry Buchen, CGCS Golf Agronomy International

Raymond Davies, CGCS CourseCo

Kevin Downing, CGCS Willoughby Golf Club

Tim Hiers, CGCS The Old Collier Golf Club

Lawrence Hirsh Golf Property Analysts

Ted Horton, CGCS Ted Horton Consulting

Dr. Michael Hurdzan Hurdzan, Fry Golf Course Design

> Mary P. Knaggs Bass Rocks Golf Club

Kevin Ross, CGCS Country Club of the Rockies

Matt Rostal, CGCS Interlachen Country Club

Steve Thomas Pelican Hill Golf Club

WEB/INTERNET www.golfcoursenews.com

Golf Course News is published six times per year by GIE Media, Inc., which also publishes: Lawn & Landscape, Commercial Dealer, Interior Business, Snow Business, Pest Control Technology and Recyling Today magazines. GIE Media is a leader in custom publishing, book publishing, database marketing, conferences and special events.

## Microbial Fertilizer That Maximizes Nutrient Uptake



#### The Most Advanced Liquid Nutrition 12 - 15 oz. per 1000 sq. ft. every 14 Days is the Best Liquid Fertilizer Program Available



Novozymes Biologicals, Inc. www.novozymes.com 5400 Corporate Circle, Salem, VA 24153 1-800-342-6173

USE READER SERVICE #14

#### Calendar of events

#### Nov. 3-6

2004 PGMS School of Professional Grounds Management and 15th Annual Green Industry Exposition Charlotte (N.C.) Marriott City Center and the Charlotte Convention Center Call 910/695-1333 or visit www.ncturfgrass.com.

#### Nov. 9-11

Penn State Golf Turf Conference Nittany Lion Inn State College, Pa. Call 814/238-2402 or visit www.paturf.org.

#### Nov. 14-16

25th Annual International Irrigation Show Tampa (Fla.) Convention Center Call 703/536-7080 or visit www.irrigation.org.

Nov. 14-16 2004 Golf 20/20 Conference World Golf Hall of Fame St. Augustine, Fla. Call 904/280-4829 or visit www.golf2020.com.

#### Nov. 15-18

Carolinas Golf Course Superintendents 2004 Conference & Trade Show The Myrtle Beach (S.C.) Convention Center Call 800/476-4272 or visit www.cgcsa.org.

#### Nov. 16-18

New York State Turfgrass Association's Turf and Grounds Exposition Rochester (N.Y.) Riverside Convention Center Call 800/873-8873 or visit www.nysta.org.

Nov. 30 - Dec. 2 Illinois Professional Turf Conference Pheasant Run MegaCenter St. Charles, Ill. Call 630/243-9483 or visit www.illinoisturfgrassfoundation.org.

Dec. 7-9 Rocky Mountain Regional Turfgrass Association's 51st Annual Turfgrass Conference and Trade Show Holiday Inn Denver International Airport Call 303/770-2220 or visit *www.rmrta.org*.

Dec. 7-10 2004 Ohio Turfgrass Conference & Show Greater Columbus (Ohio) Convention Center Call 888/683-3445 or visit www.ohioturfgrass.org.

Dec. 9-11 New Jersey Turfgrass & Landscape Expo Taj Mahal Casino and Resort Atlantic City, N.J. Call 732/821-7134 or visit www.njturfgrass.org.

Dec. 15 The 6th Annual Organic Turf Trade Show Smithtown (N.Y.) Sheraton Call 516/541-4321 or visit www.neighborhood-network.org.

Jan. 5-7 Minnesota Green Expo Minneapolis Convention Center Call 888/886-6652 or visit www.minnesotagreenexpo.com.

#### Jan. 6-11

56th Annual Canadian International Turfgrass Conference and Trade Show Metro Toronto Convention Center Call 905/602-8873 or visit www.golfsupers.com.

Jon. 11-13 Virginia Turfgrass Council's 45th Annual Turf and Landscape Conference and Trade Show Downtown Richmond (Va.) Marriott Call 757/464-1004 or visit www.thevtc.org.

Jan. 12-13 Ninth Annual Heart of America Golf and Turf Conference Overland Park (Kan.) Convention Center Call 816/561-5323 or visit www.hagcsa.org.

Jan. 17-20 Annual Michigan Turfgrass Conference Holiday Inn South Lansing, Mich. Call 517/321-1660 or visit www.michiganturfgrass.org.

#### Jan. 17-20

Turfgrass Council of North Carolina's 43rd Annual Turfgrass Conference and Show Adam's Mark Hotel and Grand Pavilion Winston-Salem, N.C. Call 910/695-1333 or visit www.ncturfgrass.org.

#### Jan. 19-21

2005 Mid-Am Horticultural Trade Show Lakeside Center at McCormick Place Chicago Call 847/526-2010 or visit *midam.org.* 

#### Feb. 2-4

Turfgrass Producers International's Midwinter Conference Hilton Cancun (Mexico) Beach Resort Call 800-405-8873 or visit www.turfgrasssod.org.

Feb. 7-12 Golf Industry Show Orange County Convention Center Orlando, Fla. Call 800/472-7878 or visit www.golfindustryshow.com.

Feb. 15-18 The First Tee 7th Annual Meeting World Golf Village St. Augustine, Fla. Call 904/940-4300 or visit www.thefirsttee.org.

#### March 2-3

Michigan Green Industry Association's 17th Annual Trade Show & Convention Novi (Mich.) Expo Center Call 800/354-6352 or visit www.landscape.org.

#### March 8-10

New England Regional Turfgrass Conference & Show Rhode Island Convention Center Providence, R.I. Call 401/848-0004 or visit www.nertf.org. GCN

E-mail conference information to John Walsh at jwalsh@gie.net.