

No. 6 green.

**Who to better understand a
perfectionist than a perfectionist.**

© 2002 The Toro Company



Toro® 800S Series sprinkler:
Put the water just where you want it. Precision control is made possible with predictable head rotation and uniform nozzle distribution.



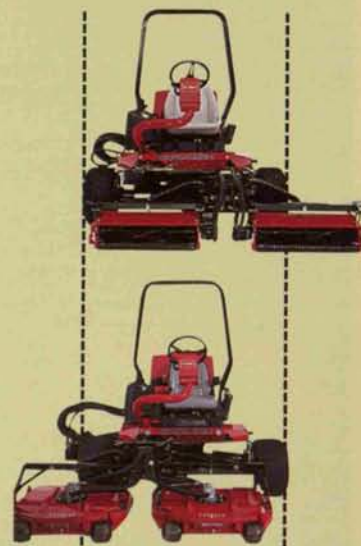
Toro® Greensmaster® Flex 21:
The greens mower that flexes with the contour of greens to virtually eliminate scalping.



Toro® Workman® 1100 and 2100 vehicles: With the most capacity and power in their class, these vehicles get more done. They also feature rattle-free plastic beds for a quieter ride.



Toro® Multi Pro® 1200 and 1250 sprayers: Featuring the innovative Spray Pro™ control system that directly links flow rate to ground speed ensuring precise application rate.



Toro® Groundsmaster® 3500-D and Reelmaster® 3100-D: Two innovative trim mowers with the Sidewinder™ cutting system. The reels on the 3100-D and the ground-following rotary decks on the 3500-D move side to side for superior trimming.

TPEC

Turf Professionals
Equipment Company
630-773-5555
www.turfproequipment.com

At Toro we know when it comes to your course, no detail is too small. That's why pros like you are the best source for new ideas on ways to make it look great. And keep it looking great year after year. To us, it's the perfect relationship.

TORO

Count on it.

Intraseeding/ Interseeding: What's the Hullabaloo?

The first difficulty in discussing the controversy (hullabaloo) surrounding this subject was figuring out how to refer to it. Some articles call the practice of seeding bentgrass into an existing bentgrass putting green "interseeding," while others call it "intraseeding." Overseeding is the general term, but using the term in every instance would be cheating, and it is also the term for seeding perennial ryegrass into Bermuda for fall color. "Inter," as in interspecific competition, implies individuals of different species. "Intra," on the other hand, implies individuals of the same species. When talking about seeding colonial bentgrass into creeping bentgrass, then, the term should be interseeding; but if you are talking about seeding one variety of creeping bentgrass into another variety of creeping bentgrass, then it should be intraseeding.

The controversy over whether or not to overseed bentgrass putting greens has been around since World War II. In the 1920s and 1930s it was standard practice, but then it fell into disrepute and superintendents thought it was a waste of time and money. "Bentgrass seedlings can't compete with established and mature grasses" was the standard thinking until the late 1960s. It was then that many superintendents were interested in interseeding their *Poa*/bentgrass mixed greens with newer varieties, such as Seaside or Pennncross, to achieve more bentgrass.

Today's situation is not much different. Newer bentgrass varieties with improved agronomic qualities continually are brought to market, but the time and cost involved in killing the existing stand of grass and reseeding are not feasible. So inter- and intraseeding with newer bentgrass varieties are now common practice.

Intraseeding Discredited

In 2002, Kendrick and Danneberger published an article discounting the practice of intraseeding. Their experiment involved using five different intraseeding techniques to try to convert an existing stand of Pennncross to Penn G-2. The five methods included a control, scalping, coring, a Primo application and a glyphosate application. The actual seeding process involved vertical mowing and

(continued on page 15)



Spike seeding with a machine like this one is perhaps the most popular way of interseeding putting greens in Chicagoland.

HAROLD FREDERICKSON IS NOW



Have Dogs • Will Travel • 708.923.6885

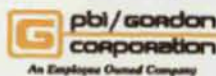
Check out our web page at www.goosesolution.com or e-mail us at goosesolution@comcast.net



1444 BERNARD DRIVE
ADDISON, IL 60101
PHONE (630) 268-8871
FAX (630) 268-1357



Proud Distributors Of:



syngenta



**Nature
Safe**

Natural & Organic Fertilizers



BASF

novozymes



REGAL
CHEMICAL COMPANY

par ex

**STANDARD
GOLF COMPANY**

Trent Bradford
(630) 742-2327

Walter Fuchs
(630) 258-8765

John Lebedevs
(630) 742-4905

Brian Baker
(630) 546-1454

AJ Huey
(630) 742-5766

topdressing of the Pennncross plots and then seeding with 0.5 pounds of seed/1,000 ft². In addition, they intraseeded in three different months: October, April and September. Molecular markers were used to differentiate between Pennncross and G-2 in samples taken a few months after seeding.

In the samples taken, only the plots receiving the glyphosate application had any established G-2, indicating that all of the intraseeding techniques that superintendents were using were ineffective. The conclusion was that complete conversion of one bentgrass to another was not possible, not because of shoot competition (otherwise the scalping would have worked), but because of root and stolon competition. Similar work by Bowman on intraseeding of A-4 into Pennncross produced similar results, although some success (20% conversion) was achieved with the combined treatment of aeration with JobSaver tines and Primo.

So overseeding doesn't work. "Ha ha! I told you so." Not so fast. It takes a few interviews with superintendents that overseed to get the full picture. First, and most importantly, these superintendents are not intraseeding; they are **interseeding!** All of these courses, like most in Chicagoland, have an old, mixed stand of bentgrass and *Poa* on their greens and not a solid stand of bentgrass like those found at university locations. Therefore, they are really not trying to seed in a species that is competing with its own kind for the same niche.

Interseeding Vindicated

Moreover, none of the superintendents interviewed look at overseeding as a complete conversion process. The true target is trying to establish a little more bentgrass on their greens, not wholesale conversion. And research supports this idea. Work by Murphy at Rutgers showed excellent competition by the newer varieties of bent when interseeded in July into a pure stand of *Poa* that had been treated with plant growth regulators (PGRs). On average, over a number of PGR treatments, SR-7200 velvet bentgrass established and outcompeted

Superintendents who successfully overseed are not intraseeding; they are interseeding! They do not look at overseeding as a complete conversion process. Their true target is trying to establish a little more bentgrass on their greens.

Poa at a 74% rate, A-4 and L-93 at 47% and Pennncross at a 9% rate.

Paul Bastron at Glen Flora, one of the first in this area to interseed, is perhaps the first to coin the term "opportunistic seed," meaning the bentgrass seed can inhabit an open spot in the green canopy and not otherwise leave it open for an opportunistic *Poa* seed. Paul interseeds at low rates (about 0.5 oz bentgrass seed/1,000 ft²), but does it constantly throughout the growing season—at least once a month. He also always applies seed when he aerifies, and uses a spike seeder during the summer months to break through the canopy.

Frank Heery at Westmoreland likes the idea of a hodgepodge stand of grass on his putting green, and actually encourages it. "If the *Poa* survives, so be it. It deserves to be there, and is a pretty good putting surface when it's healthy anyway. But my putting greens are dynamic and constantly put to the test. If the *Poa* doesn't handle the stress well, then I am going to have some bentgrass there to replace it." Over the years, he has interseeded with just about everything over his original PennEagle sod

(continued on page 17)

You take care of the course...



...we'll take care of the mosquitoes.

That's what we do. That's all we do.

Clarke's integrated pest management approach keeps nuisance mosquitoes off your course, and happy golfers coming back.

Call us today.

e-mail: georgebalis@clarkemosquito.com

1 800 942 2555

website: www.clarkemosquito.com

"Serving communities for over 50 years."



Clarke Environmental Mosquito Management, Inc.

159 Garden Avenue • Roselle, IL 60172

expo
EXTENDED
POTASSIUM

Now, there's a practical innovation that eliminates the need for frequent and repeated applications of potassium to high stress areas like fairways and sports fields. With new Expo, we've created a homogeneous potassium sulfate product that releases at the same rate as controlled-release nitrogens. The result is a profession-

Introducing EXPO . The controlled-release potassium sulfate



Our latest innovation greatly reduces the stress on turf. And on turf managers.

al grade fertilizer that feeds continuously for up to ten weeks without having to apply additional potassium. So, you get better control over your turf's nutrition, more even release of nutrients, and a lot fewer headaches. New Expo is available in NX-PRO products. For more information, contact your Turfgrass representative or visit www.LebanonTurf.com. Make sure the fertilizer you use contains new Expo. It's Expo-nentially better for reducing stress.

LebanonTurf

1-800-233-0628 • www.lebanonturf.com

PALATINE OIL CO., INC.

Over thirty years of caring service
and delivery of quality products



"One call does it all"



PALATINE OIL CO., INC.

847-358-3600

P.O. Box 985, Palatine, IL 60078

greens. Currently, he is trying the newer, more aggressive bentgrass varieties T-1 and T-2 from Jacklin Seeds (of which we also have pure stands at the Midwest Golf House for your viewing pleasure).

Randy Wahler at Knollwood is also a big proponent of interseeding: "We have converted our greens, which were approximately 70% *Poa* 10 years ago, into approximately 70% bentgrass today during the summer growing season." Randy employs an aggressive seeding system at Knollwood, using a spike seeder to seed one-third pound of 'Dominant Extreme' bentgrass/1,000 ft² every two weeks from June through August. This equals six seeding applications and a full two pounds of seed. At an estimated 6 million seeds per pound, this is 12 million seeds per year! "Really, there are two parts to it," Randy says. "The first is we have reduced the *Poa* seedbank in our greens over the past five years by suppressing seed formation with growth regulators like Proxy. And second, we are flooding the greens with opportunistic bentgrass seed, at a time during the summer when it is more apt than *Poa* to fill in ball marks, scuffs or other voids in the green canopy."

Tim Davis at Shoreacres is also very aggressive in his interseeding program. "The bottom line is we don't get paid to have open areas on our greens." He uses the popular ways of breaking through the existing

canopy, such as spike seeding and quad-tining, but also employs some other methods of seed delivery, such as the use of a modified Ryan Mat-away on one-inch instead of two-inch centers, and ketchup bottles filled with seed mix to fill in ball marks. Tim also intensely warns that sodium levels and other underlying chemistry problems of the green profile be checked before expecting success from any interseeding program.



High-pressure injection (HPI) systems like this Envirojet (which has subsequently been discontinued) may be the wave of the future for effectively placing seed in a turf canopy.

A New Approach?

A new approach may also be on the horizon for interseeders. Researchers at Texas A&M have been experimenting for some time with high-pressure injection (HPI) systems to inject fertilizers and pesticides. Preliminary work done by Engelke using an HPI system showed that it may also be a good, nondisruptive way to interseed. His work showed that the seed can easily pass through

Although scientific research needs to be done, interseeding seems to be a good idea for superintendents around the Chicago landscape.

an HPI system, a majority of seed (61%) remains viable after injection and the seed is injected to an ideal depth (1/8"). All this, and like spike seeding, surface disruption is minimal and playability is not reduced.

Although scientific research needs to be done, interseeding seems to be a good idea for superintendents around the Chicago landscape. The number one requirement for any seeding process is good seed-soil contact, which can be tough over an existing turf. Spike seeding, verticutting, aerifying and soon maybe HPI systems can put the seed in the ground for you, and the natural waning of *Poa* populations during the summer can be used to your advantage. As Paul Bastron states, "Bentgrass seed isn't going to do any good sitting in the bag."



OLD DUTCH SAND COMPANY

A Division of Jack Gray Transport Inc.

- VARIOUS BUNKER SANDS
- CART & ROAD MATERIALS
- COBBLES AND RIP RAP
- ALL GOLF COURSE AGGREGATES

Call (773) 374-2303
Richard E. Mika (847) 228-9607
(219) 938-7020

DO YOU EVER HAVE TO GROW GRASS IN A HURRY?

- ┆ Is it tough to keep enough grass on your practice tee?
- ┆ A week after a repair do your divots look like grass or sand?
- ┆ How do your fairways hold up under heavy use?
- ┆ How does your turf endure very dry conditions?

Use compost to help solve your turf problems.

- ┆ Compost has 25%+ organic content
- ┆ Compost is Rich in essential micronutrients
- ┆ Compost contains active families of beneficial microbes
- ┆ Compost retains 10 to 15 times its weight in water



GreenCycle Incorporated
400 Central Avenue, Suite 115
Northfield, Illinois 60093
847-441-6606
www.greencycle.net

Your needs...of course!



YAMAHA

We now have five Yamaha Utility Vehicles to choose from. Choose one for the moderate tasks or very demanding jobs that your course requires.



Land Pride

Harris Motor Sports is pleased to carry the Land Pride Treker with a 20 HP Honda Engine. This off-road light utility vehicle is available in 2 or 4-wheel drive with narrow or wide stance. Capacity is two full sized passengers with up to 1300lbs payload in its dumping box.



- Sales
- Parts
- Service
- Rentals
- Accessories

HMS HARRIS
MOTOR SPORTS
SALES & SERVICE

www.harrisms.com

590 Heartland Drive
Sugar Grove, IL
(630) 466-5239

HOURS:

Monday—9-8 • T-W-Th—9-5
Friday—9-8 • Saturday—9-3

The Gift

Eric Nadler (Nadler Golf Car Sales) hands over the keys to Paul's new 2004 Club Car Precedent Champions Edition golf car.



As we are all well aware, our friend and longtime MAGCS member Paul Voykin was honored in San Diego this past February with Golfweek's SuperNEWS magazine's Superintendent of the Year award. What we may not all be aware of is that this award comes with a prize . . . a token of esteem . . . a gift, if you will.

I was fortunate enough to have been invited to the lovely Briarwood Country Club in Deerfield on May 6 to witness the presentation of this gift—a brand new 2004 Club Car Precedent Champions Edition golf car (complete with a larger-than-life-sized cardboard cutout of its new owner). Eric and Dave Nadler of Nadler Golf Car Sales brought the car to Briarwood under cover of darkness and much subterfuge in an attempt to conceal the gift from its recipient; but of course, word of the occasion had spread throughout the club, and a group of Paul's closest friends and members was present to celebrate his achievement with him.

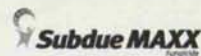
Once unveiled, the car outshone any and all parking lot denizens, from Bentley to Boxster, and was probably better equipped than the lot of them. Needless to say, Mr. Voykin was moved by the show of affection and loyalty given him by his friends, who included general manager Steve Pedersen, locker room manager Willy Steinmiller, assistant superintendent Moe Sanchez, current board of directors member Mike Solow, and past club president, past green chairman, and the man who nominated Paul for the award in the first place, Shelly Solow.

Alas, all good things must come to an end, and the crowd dispersed after some last congratulatory handshakes and parting good wishes, and off rode Paul Voykin over the grounds he has so meticulously tended for the past 43 years. While I waved goodbye (not a tearful goodbye, as we'd be seeing each other again in a few hours at North Shore Country Club for the pro-super tournament), I thought about what a guy has to do to be honored in this manner. I wondered if I would ever have the kind of impact on my friends, my employers and my family that merits this kind of adulation. Moreover, I thought about what it is about Paul Voykin that brought him through his long, distinguished career to this special day. Then it dawned on me—the gift that made this day possible was not the golf car at all. The gift was Paul's all along. It was, and is, Paul's

(continued on page 21)



Paul with the man who has been at his side through it all—Moe Sanchez.



Syngenta never stops working to keep your course green.

Creating the best turf demands the best products. We're constantly refining formulations and developing new ones. To ensure you always have what you need to keep turf healthy and beautiful.

Contact Jim Shone at 1-708-217-8509 to learn more about Syngenta products.

Important: Always read and follow label instructions before buying or using these products. ©2003 Syngenta. Syngenta Professional Products, Greensboro, NC 27419. Banner®, Barricade®, Daconil®, Heritage®, MAXX®, Medallion®, Primo®, Subdue®, and the Syngenta logo are trademarks of a Syngenta Group Company.

www.syngentaprofessionalproducts.com

COMMERCIAL TURF & TRACTOR

BUILT ON EXPERIENCE, SERVICE & CUSTOMER SATISFACTION!

QUALITY CONTRACTING, SERVICE, and SALES!

- Terra Spike® Deep-tine Aeration • Fairway Overseeding or Slit Seeding • Custom Putting Green Seeding
- Fairway Aeration - Deep or Shallow • Complete Turf Renovation • Greens Core Collecting

Wiedenmann®
TERRA SPIKE
DEEP TINE
AERATION



Complete
Seeding
Services



ROTADRON®
SOIL RENOVATOR



National® 9400
FAIRWAY and
ATHLETIC FIELD
VERTI-CUTTING/
DETHATCHING



Turbo®
TOPDRESSING



WaterWick®
GRAVEL VEIN
INJECTION



MASSEY
FERGUSON®



Wiedenmann®/
Terra-Combi®
SHOWN WISPKED
ROLLER
& OPTIONAL
OVERSEEDING UNIT



Home of Bryan's Blend Barbecue Sauce!

www.bryansblend.com

1-800-748-7497

Bryan Wood, Owner

Serving the Industry for over 20 years

Check out our demo and trade-in equipment for sale → www.commercialturfandtractor.com