Alternative Chemicals for Dollar Spot Suppression On Golf Course Turf

By Dr. Peter Dernoeden
University of Maryland

Nationally, more dollars are spent on fungicides to control dollar spot (Sclerotinia homoeocarpa) than any other turf disease. Dollar spot historically was mostly a spring and early summer disease in Maryland. Today, dollar spot can be active from late April to early December and severe summer outbreaks are common in Maryland. The reason for this dramatic change in the incidence and severity of dollar spot is not clearly understood, but some reasons include: 1) lower mowing heights, more frequent mowing and the removal of clippings; 2) lower inputs of nitrogen; 3) more frequent night irrigation, which extends leaf wetness duration; 4) planting of very susceptible cultivars such as Crenshaw and SR 1020; and 5) lack of good thatch and soil compaction control programs for fairways and tees. A University of Maryland study also showed that a composted sewage sludge (i.e., ComPro), a product used on area fairways to improve soil properties, can greatly intensify dollar spot when applied routinely.

Fungicides are the primary means of providing effective dollar spot control. Fungicides are expensive and there are additional costs for handling and applying these materials. We do know of several cultural approaches that help to suppress, but not eliminate, the need for fungicides. The following cultural approaches that significantly reduce dollar spot pressure include: 1) mowing early in the morning to remove leaf surface exudates; 2) poling or dragging to disperse leaf surface exudates on mornings when turf is not mowed; 3) foliar or spoon-feeding with low rates of water soluble nitrogen (0.1 to 0.125 lb N/1000ft2) on 10 to 14 day intervals; 4) rolling (no more than three times weekly); 5) avoiding light and frequent nighttime irrigation; 6) raising the mowing height and recycling clippings; 7) controlling thatch and soil compaction; and 8) avoiding planting of susceptible cultivars or planting them in blends with resistant cultivars. Furthermore, the plant growth regulators Trimmit and Cutless, and the herbicide Prograss also suppress dollar spot significantly.

In a 2001 routine fungicide trial, we included Primer (wetting agent), Macrosorb and ammonium sulfate to assess their effects on dollar spot. The results of the trial are presented below, but several treatments and rating dates were deleted to conserve space. Turf was Crenshaw creeping bentgrass, which was mowed to fairway height. The plots were rated for percent of plot area blighted by S. homoeocarpa on a 0 to 100% scale. Blight ratings exceeding 0.5 and 1.0% of plot area affected with dollar spot were considered commercially unacceptable for putting green and fairway turf, respectively. The application dates of all treatments are footnoted in the data table. Dollar spot first became active in late April. The disease, however, did not progress during the entire month of May. During May and early June, trace amounts of dollar spot were evident in most treated and untreated plots (data not shown). Dollar spot became more active about mid-June and remained moderately severe to severe in July and August.

It is important to note that all treatments were last applied on 2 July. During the low disease pressure period from 11 June to 15 July, all fungicide treatments provided acceptable control (all data not shown). Primer and Macrosorb reduced dollar spot on most dates between 11 June and 23 July. Primer provided commercially acceptable dollar spot reduction from 11 June to 15 July and continued to reduce dollar spot significantly when compared to the untreated control as late as 13 August. Ammonium sulfate reduced dollar spot on 11 June, and 15 and 30 July when compared to the control, but dollar spot levels generally were unacceptable. Three chlorothalonil formulations (Echo 720F, Echo 90DF and Daconil Ultrex) were compared. All chlorothalonil formulations provided equivalent dollar spot control between 11 June and 23 July. On 20 July (18 days since last applied) the Echo 90DF lost its residual effectiveness and by 13 August there was more dollar spot in Echo 90DF-treated plots, when compared to plots treated with Echo 720F and Daconil Ultrex. Echo 720F and Daconil Ultrex provided an equivalent level of dollar spot control on all rating dates. Eagle and Manhandle (Eagle G) provided equivalent dollar spot control from 11 June to 15 July. By 27 July (25 continued on page 4
**President's Message**

**Michael Evans**

We all know that managing golf course turf during a Mid-Atlantic summer can be a nerve-wracking proposition. I am discovering, however, that it pales in comparison to the time consuming and daunting task of buying and selling a home during this time of year. With that in mind, blame for the tardiness of this newsletter falls squarely in the lap of yours truly, and for that, I sincerely apologize. With the demands of our profession these days, occasionally a Board member temporarily falls behind in their MAAGCS responsibilities. At times, our Executive Secretary Charlotte Norris bears the wrath of the membership for things that are beyond her control. It's easy to be critical when things are not as you believe they should be, but please keep in mind that the Board of Directors are volunteers trying their best to balance priorities between job, family, faith, self, and Association business. In the grand scheme of things, I believe the Board and our Executive Secretary have done a good job of fulfilling the membership's needs for quite some time. With that said, there is always room for improvement. I am sure that the Chairman of the Nominating Committee, Chris Ayers, CGCS would be happy to have some strong candidates to run for office this December. If you have the time to commit and the desire to serve your Association, please call Chris. His office telephone number is (301)762-0570.

For those who did not participate in the Superintendent/Professional tournament at Heritage Hunt in May, you missed an excellent event. Host superintendent Steve Cohoon, CGCS and his staff had the Arthur Hills layout in fabulous condition. Kudos Steve, to you and your staff and to the winners of the Presidents Cup, Crofton's Bo Jumbercotta and Steve Cramer. Sadly, participation in this event has dwindled sharply in the past two years, a fact that has caused more than a little consternation on the Board. The tournament affords all superintendents a great opportunity to strengthen our relationship with our golf professional, away from the grind of our daily duties. If you have any thoughts on how we can resurrect the Superintendent/Professional to its former stature on our annual golf calendar, please share your thoughts and ideas with any member of the Board.

Speaking of wonderfully conditioned golf courses, how about the job Bill Augustin and his staff have done at the Country Club of Maryland. Wow! If you missed our June meeting, you missed a real treat. It is a pleasure to see what money, a talented architect, and a quality contractor can create. Any superintendent whose facility has their sights set on golf course remodeling, owes it to themselves to pay Bill a visit.

In closing, a reminder about several upcoming events, the University of Maryland...
May/June

Those Who Serve

MAAGCS Committees

Education - Tom Ritter, CGCS, Chairman
- Gary Angell
- Dr. Peter Demoeden
- Rob Larsen
- Darin Bevard
- Steve Evans
- Keith Williams
- Wayne Watkins

Golf - Charles Poole, Chairman
- Bill Springirth
- Wayne Watkins

Government Relations - Dean Graves, Chairman
- Chris Ayers, CGCS
- Stephen Lutz
- Joe Perry, CGCS
- Walter Montross, MG, CGCS
- Steve Potter, CGCS

Media/Public Relations - Drew Seully, CGCS, Chairman
- Mike Huey
- Eric Lassen
- Dave Nehila
- Stehanie Hau

Membership Services - John Newcomb, CGCS, Chairman
- Paul Brandon
- Eric Lassen
- Kevin Smith
- Tom Walsh
- Bob Clements
- Paul Schultheis
- John Stevens
- Mike Wannemacher

Newsletter - Rick Wakefield, CGCS, Chairman
- Jeff Carson, CGCS
- Scott Furlong
- Mark Bujac
- Michael Evans
- Jeff Michel, CGCS

Industrial Advisory - Chris Ayers, CGCS, Chairman
- Larry Cosh
- Bob Orazi

Welcome Committee - John Newcomb, CGCS
- Bernie Beavan, CGCS
- Wayne Evans
- Tim Norris, CGCS
- John Stevens

GCSAA Committees

Education - Ken Ingram, CGCS
- Walter Montross, CGCS

Election - Joseph Hubbard, CGCS

Foundation Focus Group - Sean Remington

Government Relations - Robert Collins, CGCS
- Dean Graves

Historical Preservation - George Renualt, CGCS

Tournament - Steve Cohoon, CGCS

American Society of GC Architects

Treasurer - Bill Love

Syngenta never stops working
to keep your course green.

Sure, we have an unmatched portfolio of products. From Subdue MAXX*, the industry
leader against Pythium, to Barricade*, the longest-lasting pre-emergent against
crabgrass. But we're never content. Keeping turf healthy means constantly refining
our formulations. And developing new ones, to ensure we always have the best
products. Making sure you have the tools you need, that's what we do.

Contact Jean Scott at 1-410-742-5630 to learn more about Syngenta.

www.syngentaprofessionalproducts.com

Treemasters. A Division Of Bartlett Tree Experts

Commercial and Residential Projects
- General Tree Maintenance
- Large Shrub Pruning
- Tree Preservation Before Construction
- Plant Health Care Programs
- Complete Tree and Stump Removals
- Fertilization and Aeration

Only Mother Nature Knows More About Trees Than We Do.

Contact: 301-598-8100 MD/DC
410-792-7300 BALTIMORE
410-741-5900 ANNAPOLIS

www.treemasters.com
Dollar Spot, 
continued from page 1

days since last applied), Manhandle had lost its residual effectiveness, and by 30 July dollar spot levels in Manhandle-treated plots were equivalent to the untreated control. Eagle (0.5 oz, 14-day interval and 1.0 oz, 28-day interval) lost residual effectiveness on 6 and 13 August, respectively.

The dramatic reduction in dollar spot with Primer was unexpected. It is theorized that Primer helped to suppress dollar spot by reducing leaf wetness duration, but other factors may have been involved. Because of these promising results, Primer will be further evaluated in 2002. We are grateful to the Mid-Atlantic Association of Golf Course Superintendents, Aquatrols, and Nutramax Labs, Inc. for providing funding in support of this and other studies. In this study, Primer and other non-fungicide materials (including Trimmitt, Macrosorb, urea, ammonium sulfate, Lesco’s 12-0-0 Plus Iron and Micronutrients) will be applied alone or in tank-mixes with Primer. Daconil Ultrex will serve as a standard for comparison. Unlike the 2001 study, the Primer rate will be reduced from 3.0 to 2.0 fl. oz/1000 ft² (as specified by the label for fairways) and the materials will be applied in 50 gallons of water per acre rather than the 109 gallons used in the 2001 fungicide trial. Hopefully, treatments will be identified that reduce dollar spot severity and thereby help reduce the rate and frequency of fungicide applications. Dollar spot suppression and control in Crenshaw creeping bentgrass with fungicides, Primer and Macrosorb, College Park, MD, 2001.

### Support Turfgrass Field Days

**July 24**
University of Maryland
Paint Branch Turfgrass Research Facility
College Park, Maryland

For more information contact:
Dr. Peter Dernoeden
301-405-1337  pd9@umail.umd.edu

**July 30-31**
Virginia Tech University
Blacksburg, VA

For more information contact:
Dr. Dave Chalmers
540-231-9738  chalmers@vt.edu

<table>
<thead>
<tr>
<th>Spray Interval</th>
<th>% of plot area blighted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment and rate/1000 sq ft* (days) 25 Jun 2 Jul 9 Jul 15 Jul 23 Jul 30 Jul 6 Aug 13 Aug 20 Aug</td>
<td></td>
</tr>
<tr>
<td>Primer 100 L 3.0 fl oz ..........</td>
<td>14 0.5 cde** 0.7 de 0.5 de 0.4 c-f 1.6 bc-d 2.0 cd 7.5 bc 22.3 b 33.3 a-d</td>
</tr>
<tr>
<td>Macrosorb 2-0-0 2.0 fl oz ....</td>
<td>14 0.8 bcd 1.4 bcd 1.3 bcd 1.0 bcd 3.3 bc 5.8 abc 13.3 ab 29.5 ab 31.3 a-d</td>
</tr>
<tr>
<td>Amm. Sulfate 21-0-0 2.0 oz ....</td>
<td>14 1.2 abc 3.6 ab 1.9 abc 1.4 b 4.5 ab 5.0 bc 16.0 ab 31.0 a 42.0 ab</td>
</tr>
<tr>
<td>Echo 720F 3.6 fl oz ..........</td>
<td>14 0.0 f 0.0 f 0.0 g 0.0 f 0.1 e 0.4 ef 0.5 fg 1.6 e 7.3 g</td>
</tr>
<tr>
<td>Echo 90DF 3.0 oz ..........</td>
<td>14 0.2 ef 0.1 ef 0.1 ef-g 0.1 f 0.5 de 1.3 de 3.0 de 9.3 cd 20.5 b-f</td>
</tr>
<tr>
<td>Daconil Ultrex 82.5WDG 3.2 oz</td>
<td>14 0.1 ef 0.0 f 0.0 g 0.0 f 0.1 e 0.3 ef 0.7 efg 1.6 e 7.3 g</td>
</tr>
<tr>
<td>Eagle 40WP 0.5 oz ..........</td>
<td>14 0.1 ef 0.0 f 0.0 g 0.0 f 0.1 ef 0.2 ef 1.0 ef 8.5 cd 20.5 a-e</td>
</tr>
<tr>
<td>Eagle 40WP 1.0 oz ..........</td>
<td>28 0.0 f 0.0 f 0.0 g 0.0 f 0.0 e 0.1 f 0.2 fg 2.0 e 10.8 efg</td>
</tr>
<tr>
<td>Manhandle 6.47G 6.4 oz ....</td>
<td>14 0.3 def 0.3 ef 0.1 ef-g 0.3 ef 5.3 bc 8.8 abc 15.3 ab 35.8 a 48.3 a</td>
</tr>
<tr>
<td>Untreated ....................</td>
<td>-- 3.1 a 6.6 a 3.6 a 6.6 a 10.5 a 14.0 a 25.3 a 45.8 a 44.8 abc</td>
</tr>
</tbody>
</table>

*Treatment on the 14-day interval were applied 8 and 23 May; 4 and 18 June; and 2 July.
**Means in a column followed by the same letter are not significantly different at P=0.05 according to the least significant difference t-test.
Avoiding Golf’s Pain in the Neck

Dr. William Erbe

A computerized motion analysis of more than 150 tour golfers conducted by Mike McTiegue and Sportsense, Inc. determined that the average golfer’s upper body turn is 88 degrees on the backswing and 110 degrees on the follow through. For the typical golfer, that is about 200 degrees of body/shoulder rotation around a fairly stationary head and neck. The middle thoracic part of your back is designed for rotation while the lower part of your neck is slightly less qualified for this movement. This causes a great deal of stress on the cervicothoracic junction (where your neck meets your upper back). Because of this problematic junction, a number of players have developed intervertebral disc problems. Some of them have been minor and others severe enough to require surgery.

“De-conditioning” is the inability of your joints and muscles to perform with strength, stability and full range of motion. As we mature, our tissues tighten and dehydrate due to our sedentary lifestyle. By sitting and standing, we actually train our muscles and joints to resist movement. You are already aware of this problem when symptoms include stiff necks, shoulders and upper back. These symptoms are a result of underlying muscles and joints that need to be strengthened, stretched and mobilized. Specifically, these conditions coupled with improper golf posture, lead to injury. In general, these conditions lead to osteoarthritis and disc degeneration.

Let’s start with self analysis. (1) With your back two feet from a wall and without moving your feet, can you turn and place your palms on the wall behind you? (2) Without moving your feet, can you turn your head at least 70 degrees to the right and left? (3) With your arms out to the side and elbows bent 90 degrees with your hands up, can you rotate your forearm backward past your head? If you cannot do these actions, you need to begin to work on conditioning for general health and golf performance.

If you can do these with no trouble, then a strengthening that emphasizes stability is advisable. If you cannot, then a stretching and strengthening program is advisable. If these cause some pain, then a trip to a sports-oriented chiropractor for joint examination should be done first before engaging in strengthening or stretching.

Here are some general exercises for these problem areas:
A. Lie on your back with your knees bent and your arms straight out to the side. Turn your head to one side and let your bent knees rotate to the other side.
B. Lie on your back. Interlock your fingers above your head and stretch your arms above your head.
C. Lie on your stomach with your arms at your side. Raise your head and chest off the floor.

These exercises should be held for 6 to 10 seconds and repeated 3 times each.

Even though we are talking about golf performance and injury prevention, you should take these exercises to heart for general health benefits. Remember, general maintenance of your muscles and joints is a necessity, not a luxury. Before starting any program, see your sports-oriented doctor first. If you feel any pain while performing any exercise, stop and see your sports-oriented doctor immediately.

Printed with permission from Pros N’ Hackers. Dr Erbe is the Chiropractic Coordinator for the Mid-Atlantic PGA.

Mid-Atlantic Alliance

Perennial Ryegrass Blend

- In Stock for Immediate Delivery
- Formulated for Better Grey Leaf Spot Resistance
  - Brightstar II (MD/VA Recommended)
  - Catalina (MD/VA Recommended)
  - Quickstar (MD/VA Recommended)
- Certified Mix
- Tournament Quality; Poa Free
- Also available apron treated

TO ORDER CALL NEWSOM SEED TODAY!

Allen Bohrer 800-553-2719  Sam Kessel 888-282-5295  Dave Thomas 800-830-2501
CREATING A GREAT GOLF EXPERIENCE

Is Just Part of Your Job

Every golf course has irrigation system challenges. That's why your local John Deere Landscapes golf representative can offer you a range of customized solutions. Whether you are planning new construction or overseeing renovation, we have water management tools to help you better control your costs and enhance the playability of your course.

With the recent acquisition of Century Rain Aid, your local John Deere Landscapes branch is now one of the most comprehensive suppliers of golf course irrigation equipment in the U.S. Our fully-staffed golf support team brings more than 25 years of experience to the game and can help you solve any site challenge.

Irrigation Systems Featuring Hunter Golf
Rotors, valves, central control systems, maintenance radios
Pump Stations Customized for your course
Fountains and Landscape Lighting
Boardtronics Controller Board Repairs Replace outdated Toro™ and Rain Bird™ controller boards: 888-855-9132.

More Than 200 Branches Nationwide

www.JohnDeereLandscapes.com
On-Site Consultation: 800-642-3706
As turfgrass professionals, we have developed keen observation skills. We can detect minute irregularities on our golf course such as the initiation of snow mold, localized dry spots, weeds, etc. We then respond to correct the problems before they become disastrous. How often do we employ that same ability to detect abnormalities on our own bodies? Dr. Eileen Smith, a dermatologist from the Walla Walla Clinic, has spoken of the dangers of ignoring ourselves.

We are exposed to the sun's radiation in everyday activities. However, for those of us working on golf courses, our rate of exposure is higher than most. Even during the winter months, or periods of overcast skies, we are in danger of contracting skin cancer. Without detection these problems can become disastrous, even leading to death.

The skin is the largest organ of the body. It covers the internal organs and protects them from injury, protects them from infection, and controls the loss of too much water. The skin regulates body temperature, helps rid the body of excess water and salts, and provides for temperature and touch sensations.

Skin tumors can either be benign or malignant. Benign tumors are not cancerous. They do not spread in the body and can be removed by surgery, and they are not likely to return. Malignant tumors are cancerous and it this type that we should be on the lookout for, according to Dr. Smith. There are several types of skin cancer: basal cell, squamous cell and melanoma. Basal cell carcinoma accounts for more than ninety percent of all skin cancers in the United States. It is slow growing and seldom spreads to other parts of the body. Early detection usually results in minor surgery with insignificant scarring. However, if no action is taken, surgery can be major. Melanoma skin cancer is less common, but far more dangerous. Found in the melanocytes, melanoma is a malignant form of skin cancer and can spread to other parts of the body. If left untreated, malignant melanoma can kill a patient.

Dr. Smith recommends an annual examination by a trained dermatologist. However, the best prevention is to employ the same observation skills on ourselves that we use on our golf courses. Examine your entire body in a full length mirror monthly. Look for small, smooth, shiny, pale or waxy lumps. Get to know the pattern of moles, blemishes, freckles and other marks on your skin. Be particularly observant of spots that are changing in size, shape or color. Spots that are asymmetrical, have irregular borders, color variations or are larger than 6mm in diameter (the size of an eraser) should be examined by a physician. Look everywhere, even where the sun does not shine; between the toes, the genitals, buttocks, etc. Melanoma can even occur in the eyes.

It is nearly impossible for us to avoid the sun. Dr. Smith highly recommends using sunscreens that are designed to block both UV-A and UV-B wave lengths with a minimum SPF factor of at least 15, or higher if you skin is fair. Wear large brimmed hats, sunglasses, long sleeved shirts and pants. Consider it IPM for the body.

Richard Matteson is the Superintendent at the Pendleton Country Club in Pendleton, Oregon Credit: Grass Clippings, Idaho GCSA

**IPM for the Body**

*by Richard Matteson, CGCS*

---

**Egypt Farms, Inc.**


Contact:
Dean Snyder, Dave Cammarota
Cheryl Gaulnben, Ben Stagg
Steve Chirip

410-335-3700 or 1-800-899-7645
Fax 410-335-0164
egyptfarms@erols.com

---

**Floratine**

of MARYLAND and DELAWARE

Area Representative
Sean P. Fifer

When you’ve got a problem
We’ve got a solution.

1 (800) 958-2913
PCS (443) 956-0482
Email sean@floratine.net
Visit us on the web at www.floratine

President continued from page 2
Turfgrass Field Day will be held July 24; the Virginia Tech Turfgrass Field Day will be held July 30-31. Your attendance means a great deal to the professors who work so hard to provide pertinent, scientific information to the turfgrass community. Please show your gratitude and support by attending the field convenient for your. Lastly, our third annual Stewards of the Chesapeake tournament to raise funds for MAAGCS education and research will be held August 12, at Chevy Chase Club. Tournament Chairman Tim Norris, CGCS and host superintendent Dean Graves have planned a wonderful day for us. Assemble a foursome from your facility and come on out and enjoy a day of camaraderie and golf at one of the finest venues anywhere. I look forward to seeing you at Chevy Chase Club.
Floratine has invested our resources to conceive, develop and provide real solutions to situations encountered by Turf Professionals.

Our products help restore optimum functioning to the plant and soils to achieve healthy, high quality, stress resistant turf.

At Floratine we are concerned about the environment and the impact of turf management on our air and water. This concern has lead to the discovery of new products and methods to maximize effectiveness and positive environmental impact.

Our approach to plant health can save more than just your budget, by identifying, targeting and solving specific soil, nutrient, pest and growth issues. Our solutions promote more efficient utilization of nutrients and better natural resistance to stress and pests.

At Floratine:
We understand your problems.
We understand our products.
We have your solution.

Floratine of MARYLAND and DELAWARE

Call Toll Free 1-(800) 958-2913

Photo courtesy of The Woodlands is the 195 yard Par 3 #2
Maryland Student Chapter of the GCSAA

A first time win against the Virginia Tech Turf Club in the Mid-Atlantic Challenge Cup was one of the major highlights for the Maryland Student Chapter of the GCSAA this past April. Of course the other major highlight was claiming the 2002 National NCAA Basketball Championship.

The six-person team of Mike Bostian, Scott Crownwell, Eric Long, Terrance Mentzer, Adam Newhart, and Rick Waltrup took the Cup over a two-day match play competition on the Blue Heron Course at Fords Colony and Two Rivers Golf Club in Williamsburg, VA, April 19-20. Go Terps!

Elections for the coming school year were held at the Maryland Open this past May and the new officers are as follows:

- Rick Waltrup: President
- Mike Cline: Vice-President
- Mike Bostian: Secretary
- Todd Kyper: Treasurer
- Terrance Mentzer: Ag Council Representative

Terrance Mentzer will serve as the Ag Council Representative. Special thanks to Jed Vail for is involvement as an officer this past year.

On May 23rd the Institute of Applied Agriculture graduated 16 students during the University of Maryland Commencement Exercise held at Memorial Chapel. This class consisted of students who completed their studies in December 2001 and in May 2002.

The December graduates were Nicholas Albrecht, Chris Ellis, Steve Griner, Kevin Laflerty, Eric Monnig, Brian Moreau, Brian Munnelly, Dan Neus, Matt Neus, and Tom Turi. The May graduates were Dave Canavan, Josh Jordan, Eric Long, Chris Pence, Rob Rosier, and Jed Vail. Congratulations to our new alumni!

This summer the club will be involved in planning meetings, the U of MD Turfgrass Field Day and the Stewards of the Chesapeake Tournament.

---

Newsom Seed and Andgrow Fertilizer

14-1-11 Premium Greens Grade And Fairway Grade Fertilizers

- Mini and Regular sizes available
- Slow-release Nitrogen from Milorganite and Meth-X 40
- Sulfate of Potash
- Contains Sulfur and Iron

Also available: Custom Blend Fertilizers

TO ORDER CALL: NEWSOM SEED

Allen Bohrer 800-553-2719 Sam Kessel 888-282-5295 David Thomas 800-830-2501
Fax: 301-762-9544 Fax: 703-242-6430 Fax: 410-758-0798
Two Man Team Championship

There were a total of sixty golfers who participated in the Two Man Team Championship Tournament at Hunters Oak Golf Club on Tuesday, April 9, 2002. It was a difficult course with rolling tight fairways and quick greens that made you use your head as well as most of the clubs in your bag. Thanks to our host Kurt Wittman and his staff who had the course in great condition. Also, the golf director Tony Mederia did an outstanding job coordinating the tournament and food, which was also great.

Low Gross  Mike Evans & Rick Wakefield
2nd Gross  Glen Smickley & Paul Brandon
3rd Gross  Tom Walsh & Keith Williams
Low Net  Joe Herkalo & Donn Dietrich
2nd Net  Walter Montross & Bryan McFerren
3rd Net  Bill Shirk & Scott Wagner

Closest to the Pin
#4 Mike King  #6 John Long
#11 Jim McHenry  #16 Bill Shirk
Straightest Drive  Rick Wakefield
Longest Drive  Charlie Poole

Points Tournament

There were a total of sixty four golfers that participated in the Points Tournament held at the Country Club of Maryland on June 11, 2002. Thanks to our host Bill Augustin and his staff who had the course in great condition, especially the bunkers and ryegrass fairways. Also, thanks to the head professional Mike Healy for his assistance in coordinating the tournament and the fine food that was served before and after the tournament.

Low Gross  Rick Wakefield
2nd Gross  Joe Herkalo
3rd Gross  Bill Shirk
Low Net  Chris Jennings
2nd Net  Matt Marsh
3rd Net  Bill Neus
4th Net  Harry Fridley
5th Net  Ed Walker
6th Net  Tom Ritter

Closest To Line  Bob Orazi
Long Drive  Nick Vance

Closest To Pin
#5 Mark Kingora  #8 Bill Neus
#13 Joe Herkalo  #17 Barry Grote

Thanks to our sponsors for these two events, TESCO, Ace Tree Movers, Newsom Seed, Finch Services, Syngenta, G.L. Cornell, Davison Golf, Lucks Sales Associates, and Simplot Partners.

The Superintendent/Pro Tournament was held on May 14, 2002, at Heritage Hunt Golf Club, Gainesville Va. Twenty-six teams participated down from the thirty-four teams that played last year. The golf course was in excellent condition and was a real challenge due to the wind, rain and cold weather conditions. Thanks to Steve Cohoon, CGCS and his staff for a job well done and to Mark Jansen, the head professional, and his staff for the great food, setting up the tournament and scoring at the end of the day. The Presidents Cup went to Bo Jumbercotta and Steve Cramer with a net score of 65.
MAXIMUM PROTECTION FROM STRESS WITH AMINO ACID BIOFERTILIZERS

Use MACRO-SORB® radicular throughout the growing season to increase nutrient absorption and enhance root growth and development.

Use MACRO-SORB® foliar to increase photosynthetic activity, especially during periods of stress, and throughout the year to enhance your foliar spray program.

Use QUELANT®-Ca to correct a calcium deficiency within the plant or once a month to keep calcium levels sufficient throughout the year.

Use QUELANT®-K to enhance synthesis of carbohydrates and increase turfgrass tolerance to heat, drought, cold, traffic, disease, and other adverse conditions.
Toots of the Trade
News & Notes

New Members
Class B
William Lewis
John W. Long
Glenn Stowers
Matthew Wharton
Kurt Wittman

Bulle Rock
Mountain Branch G C
Prospect Bay C C
Swan Point Yacht & CC
Hunters Oak Golf Club

Class C
Thomas Harshburger
Kevin Potter
Ian Williams

Four Streams Golf Club
Four Streams Golf Club
Hayfields Country Club

Class D
Nicholas Mooneyhan

Northwest Park G C

Class F
Randy Adler
Lee Goodwin
Karen Hartman
Mike Janzer
John Tribbett

Shemin Nurseries
HGS-Pond Doctor
Cleary Chemical
Plant Food Co.
Renoscapes, Inc.

Congratulations
To Dave Cammarota upon the birth of his granddaughter, Cassidy Lee
To Mac and Kim Ryan upon the birth of their daughter, Kellie Kroll
To Kevin and Joy Smith upon their recent marriage
To Rich Sweeney, CGCS upon completing his GCSAA Certification

Upcoming Events

July 24
U of MD Field Day
U of MD Research Facility

July 30-31
VA Turf & Landscape Field Day
VA Tech

August 12
Stewards of the Chesapeake
Chevy Chase Club

September 10
Chapter Meeting
University of MD Golf Course

Interested in Scholarships??

Contact MAAGCS
888-643-8873
maagcs@maagcs.com

Online Opportunities

A book and a brochure focusing attention on the world's landscape water concerns Water Right -- Conserving Our Water, Preserving Our Environment, and Share The Water earned the 2002 Environmental Communicator of the Year title for Doug Fender, Turfgrass Producers International (TPI) Executive Director. Fender's communications efforts have focused on replacing myths with scientifically based facts about turf and landscape design, installation and maintenance. From 1973 to 1978 he was the Director of Communications for GCSAA.

The 64-page Water Right book can be downloaded (free of charge) from the TPI website at www.TurfGrassSod.org. Hardcopies of the full-color book are available for a $5.00 handling fee by contacting the Turfgrass Producers International Association at 1855-A Hicks Road, Rolling Meadows, IL 60008.

TGM English & Spanish Online, a bilingual publication for golf course maintenance, is intended to be a link between the Superintendent and his Spanish-speaking staff, thus assisting in the education and training of the people involved in golf course maintenance. The purpose of this publication is to provide a tool that would be a source of information and constant update about products and equipment in the market, handled by the maintenance staff on a daily basis.

The subscription to TGM English & Spanish Online is free and the first issue came out in May. For more information please visit www.tgm.com.ar.
MAAGCS NEWSLETTER SUPPORTERS

Patrons listed on this page are supporting our Association. You are encouraged to support them.

ACE NURSERY/ACE TREE MOVERS
Specializing in select nursery material & tree moving for the golf course industry. Serving the entire Mid-Atlantic region with 20 years experience in the golf course environment. Pre-construction moves, screening, memorial trees.
www.acestreetmovers.com
Jack Heim (800) 258-4404
Mike Cunningham (301) 258-0008

A.C. SCHULTZ, INC.
Irrigation well installation and rehabilitation. Repair and installation of booster pumps, motors, treatment equipment as well as construction of pumping stations and well houses. Call for flow testing, spring start up or winterizing of your wells and pumps.
John Gilman (410) 841-6710 Fax (410) 841-6711

AULT, CLARK & ASSOCIATES, LTD
Zoysia, Installation services.
www.acatreemovers.com
acaaolf@erols.com
www.acaqoif.com
(215) 886-6011 (215) 651-9870

DAVISON GOLF, INC.
Isotile, US Silica TD & Mix, Zoepro, Granite Bases, Bentgrass, Bluegrass, Fine Fescue, Tall Fescue, Zoysia, Installation services.
Chip Presendorfer Jake Staub (215) 866-6011 (215) 651-9870

AULT, CLARK & ASSOCIATES LTD
Premium Sod for Golf Courses Bentgrass, Bluegrass, Fine Fescue, Tall Fescue, Zoysia, Installation services.
Brian Ault, Tom Clark, Dan Schlegel, Eric Ault Ph: 301-942-0716 Fax: 301-942-2871

EGYPT FARMS, INC.
Quality controlled topdressing & construction, Mixes Soil Amendments Solu-Cal/Solu-Cal S Bio-Stims Rubber Geo-Textiles, Custom Bagging Mixes, Mixes, Soils Premium & G. Organic Fertilizer Dean Snyder, Cheryl Gaulney, Dave Cammarto, Steve Chip, Ben Stagg 800-899-7645 EGYPTRIFMS@aol.com

FINCH SERVICES, INC.
John Deere, Agrinetable, Landscapes, Nune, Pronovost, and Ty-Crop Turf Equipment Ray Finch, Tom Wojcik, Larry Cos, Dave Feldman, Paul Shulhein, Kevin Smith, Tim Anderson
Parts (800) TIDEERE, (410) 876-2211

FISHER & SON COMPANY, INC.
Superior turf and horticultural control products; Fertilizers (Earthworks, Lebanon, Growth Products), Grass Seed, Soil Amendments and top dressings.
Jack Ruxbrough (703) 876-0983 Mike Fisher (800) 262-2127

FLOMATINE OF MARYLAND & DELAWARE
A Division of Sleepy Hollow Enterprises Floratine Innovative plant & soil products, 464 Ailes Road, Delta, PA 17314-8528 Sean Fifer, Consultant (800) 942-0716 Fax (410) 971-0003 www.floartine.net sean@floartine.net

G.L. CORNELL CO. @www.glcornell.com
Textron Golf & Turf: Jacobsen, Cushrnan, Ryan, F.L. CORNELL CO. @www.glcornell.com
Sean Fifer, Consultant (800) 958-2913

Golf Car Specialties-Yamaha Golf Carts
Paul Tideman, Regional Manager
Office: 703-971-0003
Cell: 703-967-3870
Exclusive distributor of Yamaha Golf Carts and utility vehicles

GREEN MEADOWS TURF SUPPLY CO.
Fertilizers (Lebanon, Nurse Grass), Seed, Native Grasses, Biological Plant Health Care Products, Herbicides, Soil Conditioners, Spreadsers and Spreader Hoses 2125 E & F Wainey Rd. Chantilly, VA, 20151
Fax (703) 449-0953
(703) 449-0973
(888) 889-0457
Bob Butterworth, Harry Fridley, Herb Lea

HYDRO DESIGNS, INC.
Consulting firm specializing in golf course irrigation & pump station design, irrigation system assessment, construction management/irrigation projects, system troubleshooting/control systems & pump stations, and GPS mapping
Michael Krones (301) 360-9963 Paul McMahon (410) 862-3706

JOHN DEERE LANDSCAPES
Representing Hunter Golf
800-642-3706

KEEN CONSULTING, INC.
Professional soil & environmental services. Certified nutrient management plans for golf courses, sports fields, and sod farms. All analytical work performed at Brookside Laboratories, Inc. (302) 684-5270

LEBANON CHEMICAL CORP.
Manufacturers and formulators of Country Club Products, Greenkeeper and Lebanon Pro Fertilizer and NX Pro Fertilizer.
Paul Grosh (800) 338-0263 Fax (504) 869-2826

LESSCO, INC.
Lesco is the nation’s leading manufacturer and distributor of professional turf care products. Including fertilizers, combination and control products, seeding and turf care equipment. Call your LESSCO professional representative. 800-321-5355

MCDONALD & SONS, INC.
Golf course construction and maintenance.
John McDonald (410) 799-7740
Erik McDonald (410) 379-7740

NEWTEAK SEED INC.
www.Newtseed.com Allen & Carrie Bohrer (800) 553-2719 (301) 762-9544 Fax Sam Kessel (888) 285-2962 (703) 242-9430

OUTCRY ORGANICS, Unlimited, Inc.
Design/Build Irrigation Systems
Construction Management & Consultation
G Scott Robinson
GUInc@Juno.com
410 or 800-360-5393 office
410365-5393 mobile
410-360-5343 fax

REICHERT PARTNERS
20 years of irrigation, supply management & environmental management at golf courses in the Mid Atlantic area. Water supply & environmental projects: groundwater and stream quantity and quality permitting.
J. Lindaw, Mike Hauffer, Joel Herman (410) 876-0280

SIMPLEX PARTNERS
The global leader in Turf & Horticulture products by bringing Earth’s resources to life.
MeadowBond@BallAnnapo/Store217-764-2707
Jeff Williams (Western VA) 804-352-9878 Bruce McCabe (Southeast VA) 804-741-9204

STANCILS, INC.
Special sand and blending services for golf courses and athletic fields.
499 Mountain Hill Rd., Perryville, MD Terry D. Stancil (410) 939-2224

SUMMIT HALL TURF FARM INC.
Meyer Z-52 Zoysia (or sod) Premium Bluegrass Blend (sod), Medallion Turf Type, Tall Fescue Blend (sod), Southshore/Crenshaw Bentgrass, Signature Bentgrass, UHS products (seed, fertilization, chemicals & lime).
Brian Finger (301) 948-2900 Frank Wilmot

SYNGENTA PROFESSIONAL PRODUCTS
Banner Max®, Barricade®, Daconil 2N®, Primo Max®, Daconil Weather Stik®, Heritage®, Subdue Max®, Daconil Utrext®, Scimitar GC®, Trimmit®, Reward @ Jean A. Scott – Phone: (410) 742-5630 Email jean.scott@syngenta.com

THE CARE OF TREES
Aboricultural services, pruning, plant healthcare, IPM, removers, stump grinding, root pruning
Ron Rubin, Chris Smith, Jeff Allen (301) 948-5885 or (703) 691-1720

TURF EQUIPMENT & SUPPLY CO., INC.
TorO equipment & irrigation, Foley & Neary grinders, Oliverine pond aerators, Flowtronex, pump stations, TrueSurface rollers, Aeravator, Dakota Spreaders. 800-827-3711 www.turf-equipment.com

Turfgrass Matters

YORK DISTRIBUTORS
Fungicides, insecticides, herbicides, Lebanon Premium Grade Fertilizers, Grass Seed, Primer Soil Surfactant, Pest Control Products, and H2O Turf Soluble Fertilizer Sod & Seed.
Tom Walsh Office (800) 796-7345 Fax (410) 636-8765