

Super Clean Super Quiet

Model
TV40



Recirculating
Turf Vac

Turbo Vac Turf Sweeper

- Recirculated Air System keeps Dust to a Minimum!
- A self-contained vac. 20hp gas engine with a high capacity, low rpm fan to minimize noise and dust. Options include rotary broom and remote hose attachment.
- Works great on granular rubber and simulated turf!
- Cleans up cigarette butts and sunflower seeds!



We Stand Out from
the Competition.

Toll Free 800-835-1042
www.harperindustries.com

HARPER INDUSTRIES, INC.
151 East Hwy. 160
Harper, Kansas 67058
info@harperindustries.com

Fill in 151 on reader service form or visit <http://oners.hotims.com/9136-151>

THE BLECAVATOR



ONE PASS PERFECTION

From 52" - 160" working widths

RESHAPING THE FACE OF NATURE

BLEC
USA, INC.

864.225.3666 • www.blecusa.com

Fill in 152 on reader service form or visit <http://oners.hotims.com/9136-152>

WANT TO REACH QUALIFIED BUYERS?

- TARGETED LEADS
- SUPERIOR PENETRATION
- PROVEN VALUE
- OUTSTANDING RESULTS

M2MEDIA 360
LIST RENTAL

Then rent our list of targeted, qualified readers for your next direct mail promotion.

Call today for more information regarding our product lines and extensive database marketing programs.

Cheryl Naughton
cnaughton@m2media360.com
770/995-4964 Fax: 770/995-4983



AERATION • MOISTURE & TEMPERATURE CONTROL FOR YOUR TURF

"There is no better way to healthy grass than through soil aeration and oxygenation. I absolutely love my SubAir system."



Russ Kurcab
CSFM Turf Manager
Denver Broncos
INVESCO Field at Mile High

SUBAIR SPORTS FIELD SYSTEMS allow for longer growing seasons, shorter rain delays, and faster turf recovery following special events, severe weather, and excessive use.

www.subairsystems.com
866.641.6663

SubAir. TRUE BEAUTY LIES JUST BENEATH THE SURFACE

Fill in 154 on reader service form or visit <http://oners.hotims.com/9136-154>

Topdressers for Turf Excellence

Golf Courses • Sports Turf • Colleges
Schools • Parks • Recreation Areas



The Affordable Solution
for Turf Care Anywhere



Also inquire about Millcreek's Model 4300 Turf Tiger® large capacity, precision topdresser.

Get a Free Turf Tiger®
Cubs Home Field
Advantage DVD

Call (800) 311-1323
or visit

www.MillcreekMfg.com

MILLCREEK
MANUFACTURING CO.
Spreaders for the Earth's
Farms, Fields, and Turf

Fill in 153 on reader service form or visit <http://oners.hotims.com/9136-153>

LANDS Expo

Continuing Education for Sports Turf Managers

Session LE22

Sponsored by STMA


Managing Healthy Sports Fields

Tom Samples, Ph.D., University of Tennessee
Paul Sachs, North County Organics

Many of today's new products and technologies can help sports turf managers maintain healthy, wear-resistant turfs. Timely mowing, fertilization, watering, aeration and pest control are fundamental. Learn that the vast majority of soil organisms are beneficial in a functioning ecosystem.

Multiple Accreditation Available for Only \$30

Register online at

 **GreenIndustryEducation.com**
Your Continuing Education Oasis
877.964.6222

Fill in 149 on reader service form or visit <http://oners.hotims.com/9136-149>

LANDS Expo

Continuing Education for Sports Turf Managers

Session LE02

Pesticides on Turfgrass

Jay Gan, Ph.D., University of California, Riverside
Bruce Kidd, Dow Agro Science

Maintenance of high quality sports turf, including golf courses, rely on the adequate use of pesticides in order to protect against pests, and restore the competitive balance in favor of the turf. This session will cover two facets of pesticides on turfgrass. One will be the fate of pesticides in the environment and strategies for minimizing pesticide runoff and offsite movement. The other will cover cultural and chemical practices for managing specific weeds in turfgrass with various stressful conditions. Examples will be drawn from golf courses and professional sports fields, all the way down to your children's beat-up soccer fields, with suggestions how you can help create and maintain a safer and better performing turfgrass.

Need CEUs - \$30 Without CEUs - \$20

Register online at

 **GreenIndustryEducation.com**
Your Continuing Education Oasis
877.964.6222

Fill in 148 on reader service form or visit <http://oners.hotims.com/9136-148>

BECOME A CERTIFIED SUSTAINABLE LANDSCAPER



Visit

HortiGenomics.com

Demining resources and client demands have made Sustainable Landscapes extremely important. This valuable certification is a must for any industry professional.

 **GreenIndustryEducation.com**
Your Continuing Education Oasis
877.964.6222

Fill in 147 on reader service form or visit <http://oners.hotims.com/9136-147>

Minuteman Parker

Minuteman Parker's Estate Master® Lawn Sweeper covers a 100 inch sweeping path and has a 51 cubic foot capacity. It easily picks up grass, leaves, twigs and other lawn debris. This model works great on golf courses, athletic fields, parks and other large turf areas.



For more information on the Estate Master or any Minuteman Parker's fine line of outdoor maintenance equipment, please call 800-323-9420 or visit our website at www.parkersweeper.com

See our online product demo at:
<http://oners.hotims.com/9094-300>

Fill in 146 on reader service form or visit <http://oners.hotims.com/9136-146>

SportsTurf MANAGERS ASSOCIATION Online Training

STMA Members - \$30 each
Non-members - \$50 each

Session OC01 - Schools K-12

Speaker 1 - Floyd Perry, Grounds Maintenance Services
Speaker 2 - Dr. Grady Miller, University of Florida
Speaker 3 - John Mascaro, Turf-Tec International
Speaker 4 - Dr. John Cisar, University of Florida

Session OC02 - Parks & Recreation

Speaker 1 - Preston Courtney, Disney Wide World of Sports
Speaker 2 - Floyd Perry, Grounds Maintenance Services
Speaker 3 - Bill Berry, City of Rock Hill
Speaker 4 - Richard Sarger, Sarasota County

Workshop OC03 - Developing A Master Plan

Speaker 1 - Francois Hebert, Consultant



Workshop OC04 - Building Athletic Fields

Speaker 1 - Dr. Chuck Darrah, CLC Labs
Speaker 2 - Boyd R. Montgomery II, The Toro Company
Speaker 3 - Mark Heinlein, The Motz Group


Workshop OC05 - Fertilizer

Speaker 1 - Brad Jakubowski, University of Nebraska
Speaker 2 - Dr. Tom Samples, University of Tennessee

Demonstration OC06 - Outdoor Demonstrations

Speaker 1 - Dr. Roch Gaussoin
Speaker 2 - Floyd Perry, Grounds Maintenance Services
Speaker 3 - Preston Courtney, Disney Wide World of Sports

For STMA Online Training information and registration, visit

 **GreenIndustryEducation.com**
SportsTurf Managers Association (800) 323-3875

Fill in 145 on reader service form or visit <http://oners.hotims.com/9136-145>



Green Mediator

Connecting You to Advertisers,
and Their Products and Services

Advertisers' Index/Reader Service Information

Three fast and easy ways to get additional information on products and services in this issue:

1. Visit the Web address next to the advertiser's name for the ad in this issue.
2. Go to sportsturf.hotims.com to search for products by category or company name. Plus, link directly to advertisers' Web sites, or request information via e-mail or by fax.
3. Complete the reader service information below. Write in the reader service number from the product or circle advertiser from the index, copy, and fax to (416) 620-9790

Please write the reader service number for **FREE product information** in the boxes above. If this is not your copy of ST, please go to www.submag.com/sub/ou to sign up for a **FREE one year subscription** of your own.

SportsTurf ADVERTISERS' INDEX

Advertiser	Web Address	Fill in #	Page #
ABI Irrigation	http://www.oners.hotims.com/9136-170	170	48
Aerway/Holland Equipment	http://www.oners.hotims.com/9136-173	173	47
Airfield Systems	http://www.oners.hotims.com/9136-138	138	42
Bannerman	http://www.oners.hotims.com/9136-114	114	11
Beacon Athletics	http://www.oners.hotims.com/9136-171	171	48
BLEC USA	http://www.oners.hotims.com/9136-152	152	51
Bobcat Company	http://www.oners.hotims.com/9136-116	116	13
Covermaster	http://www.oners.hotims.com/9136-121	121	20
Covertch	http://www.oners.hotims.com/9136-163	163	49
Cygnat Turf	http://www.oners.hotims.com/9136-142	142	45
Delta Bluegrass	http://www.oners.hotims.com/9136-120	120	19
Deweze/Goossen	http://www.oners.hotims.com/9136-151	151	51
Diamond Pro	http://www.oners.hotims.com/9136-131	131	35
Diversified Sports Specialties	http://www.oners.hotims.com/9136-157 and 168	157 and 168	48, 50
Evergreen Turf	http://www.oners.hotims.com/9136-119	119	17 (reg.)
First Products	http://www.oners.hotims.com/9136-129	129	32
Graco Inc.	http://www.oners.hotims.com/9136-112	112	5
Green Industry Education	http://www.oners.hotims.com/9136-145, 147-149	145, 147-149	52
GreenOne Industries	http://www.oners.hotims.com/9136-115 and 132	115 and 132	12, 36
GreensGroomer	http://www.oners.hotims.com/9136-128	128	31
Growth Products	http://www.oners.hotims.com/9136-176	176	17 (reg.)
Jacobsen	http://www.oners.hotims.com/9136-144	144	56
Jaydee Equipment	http://www.oners.hotims.com/9136-172	172	48
JC Whitlam	http://www.oners.hotims.com/9136-162	162	49
JDR	http://www.oners.hotims.com/9136-164	164	49
John Deere	http://www.oners.hotims.com/9136-113	113	9
KRain	http://www.oners.hotims.com/9136-111	111	3
Kromer Company	http://www.oners.hotims.com/9136-169	169	48
Laser Force	http://www.oners.hotims.com/9136-0161	161	49
Laser Leveling	http://www.oners.hotims.com/9136-122	122	21
Lebanon Turf	http://www.oners.hotims.com/9136-110	110	2
MASA Inc.	http://www.oners.hotims.com/9136-158	158	50
Millcreek Manufacturing	http://www.oners.hotims.com/9136-153	153	51
Minuteman Parker	http://www.oners.hotims.com/9136-146	146	52
Missour Turf & Paint	http://www.oners.hotims.com/9136-174	174	47
Moltan	http://www.oners.hotims.com/9136-155	155	50
Newstripe	http://www.oners.hotims.com/9136-134	134	38
Partac Peat/Beam Clay	http://www.oners.hotims.com/9136-160	160	50
Peat Inc.	http://www.oners.hotims.com/9136-167	167	48
Pioneer Manufacturing	http://www.oners.hotims.com/9136-137	137	42
PPW	http://www.oners.hotims.com/9136-139	139	43
Pro's Choice	http://www.oners.hotims.com/9136-130	130	33
Redexim-Charterhouse	http://www.oners.hotims.com/9136-123	123	23
SISIS	http://www.oners.hotims.com/9136-124	124	25
Smithco	http://www.oners.hotims.com/9136-117	117	15
Stabilizer Solutions	http://www.oners.hotims.com/9136-118	118	16
SubAir Systems	http://www.oners.hotims.com/9136-154	154	51
Synthetic Surfaces	http://www.oners.hotims.com/9136-126	126	29
Synthetic Turf Council	http://www.oners.hotims.com/9136-127	127	30
TifSport Growers Association	http://www.oners.hotims.com/9136-125	125	27
Tru Mark Athletic Field Marker	http://www.oners.hotims.com/9136-156	156	50
Turfco Manufacturing	http://www.oners.hotims.com/9136-159	159	50
Turf-Seed, Inc.	http://www.oners.hotims.com/9136-166	166	49
Turf Specialties	http://www.oners.hotims.com/9136-140	140	43
TYCROP	http://www.oners.hotims.com/9136-141	141	45
Varicore Technologies	http://www.oners.hotims.com/9136-143	143	55
Weidemann	http://www.oners.hotims.com/9136-136	136	41
World Class Athletic Surfaces	http://www.oners.hotims.com/9136-133 and 165	133 and 165	37, 49

Please complete this form in its entirety to receive your product information.

1 What is your company's primary business? (check ONLY ONE)

- F Sports Complex G Athletic Field and/or Park Architect/Designer
T School, College or University P Park H Other (please specify)

2 Which of the following best describes your title? (check ONLY ONE)

- A EXECUTIVE/ADMINISTRATOR — President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Athletic Director
B MANAGER/SUPERINTENDENT — Superintendent, Landscape/Ground Maintenance Manager, Foreman, Supervisor
C GOVERNMENT OFFICIAL — Government Commissioner, Agent, Other Government Official
D SPECIALIST — Architect, Designer, Consultant, Agronomist, Horticulturist, Certified Specialist
F COACH E Other (please specify)

3 Do you have the authority to buy, specify or recommend products and/or services for your business or organization?

- Y Yes N No

4 Yearly operating expenditures (excluding salaries)

- F Over \$1 million C \$50,001 - \$100,000
E \$500,001 - \$1 million B \$25,001 - \$50,000
D \$100,001 - \$500,000 A \$25,000 and under

5 Please also send a free subscription to the following people at the same location

Name _____ Title _____
Name _____ Title _____

Yes, Please start/continue my subscription to SportsTurf

No, thank you.

Signature: (required) _____ Date: _____

Name: (please print) _____

Title: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: (required) _____

Movin' up I-95

BY DR. GRADY MILLER
Professor, North Carolina State University

Questions?
Send them to
Grady Miller at
North Carolina State
University, Box 7620,
Raleigh, NC 27695-7620,
or email
grady_miller@ncsu.edu.

Or, send your
question to
David Minner at
Iowa State University,
106 Horticulture Hall,
Ames, IA 50011
or email
dminner@iastate.edu.

This month rather than answer a specific question, I want to address a turf situation I am experiencing that many of you have also experienced. A recent job change finds me relocated from one part of the country to another, and I'm about to be introduced to a whole new "turf world." How many of you have moved to a totally new situation—new stadium, new grass, new equipment, new everything? I use the word new loosely; different may be a better adjective.

Having spent more than 11 years in Florida, I have grown pretty accustomed to year-round maintenance of bermudagrass athletic fields. Of course in most of Florida, a manager can overseed if they want the look of a cool-season grass field, but that was generally not necessary for the function of the field. In most years the fields would stay green except for a few weeks of semi-dormancy. I have mowed bermudagrass the first week of a New Year in shorts more often than I have shoveled snow. Actually, I have never seen snow in Florida, so maybe that is not a good analogy.

I have begun to survey the athletic fields around my new home in North Carolina and I'm finding that there are some bermudagrass fields, but it seems that tall fescue is also popular. In fact, one of my colleagues tells me that tall fescue is the number one grass sold in North Carolina. A quick scan of the sod farm ads in the yellow pages seems to confirm that statement.

Walking down the aisle of a local "big box" home improvement store also introduced me to Kentucky bluegrass seed and mixtures of Kentucky bluegrass and tall fescue seed. At these same stores, bermudagrass seed is available in one cultivar and occupies the top shelves in small, 1-pound bags. There are at least a dozen tall fescue cultivars available in bags, boxes, and buckets of all sizes. I did some studies in graduate school with a few tall fescue cultivars, but I could only find one of those grasses on the shelves. I made a mental note to begin learning more tall fescue cultivars and their characteristics. Obviously, tall fescue cultivars do not have the staying power of Tifway bermudagrass.

Ever used the term "native soil"? It is a common term used to describe the most common soil type of a region. I have to recalibrate my terminology to fit this new region. In Florida, native soil meant sand. In the Piedmont region of North Carolina it is more like clay mixed with small to medium sized rocks. It is why there are so few

brick houses in Florida and so many in North Carolina. These heavy soils do not drain very fast but I have realized some advantages. I noticed that after a morning rain the turf does not begin to wilt in the afternoon from drought stress, as it seemed to do on some of those Florida sugar sands. Also, these soils retain nutrients much better with their higher cation exchange capacity (CEC). I suppose a turf manager in this area may spend his extra money on replacing core aeration tines rather than irrigation supplies and fertilizer.

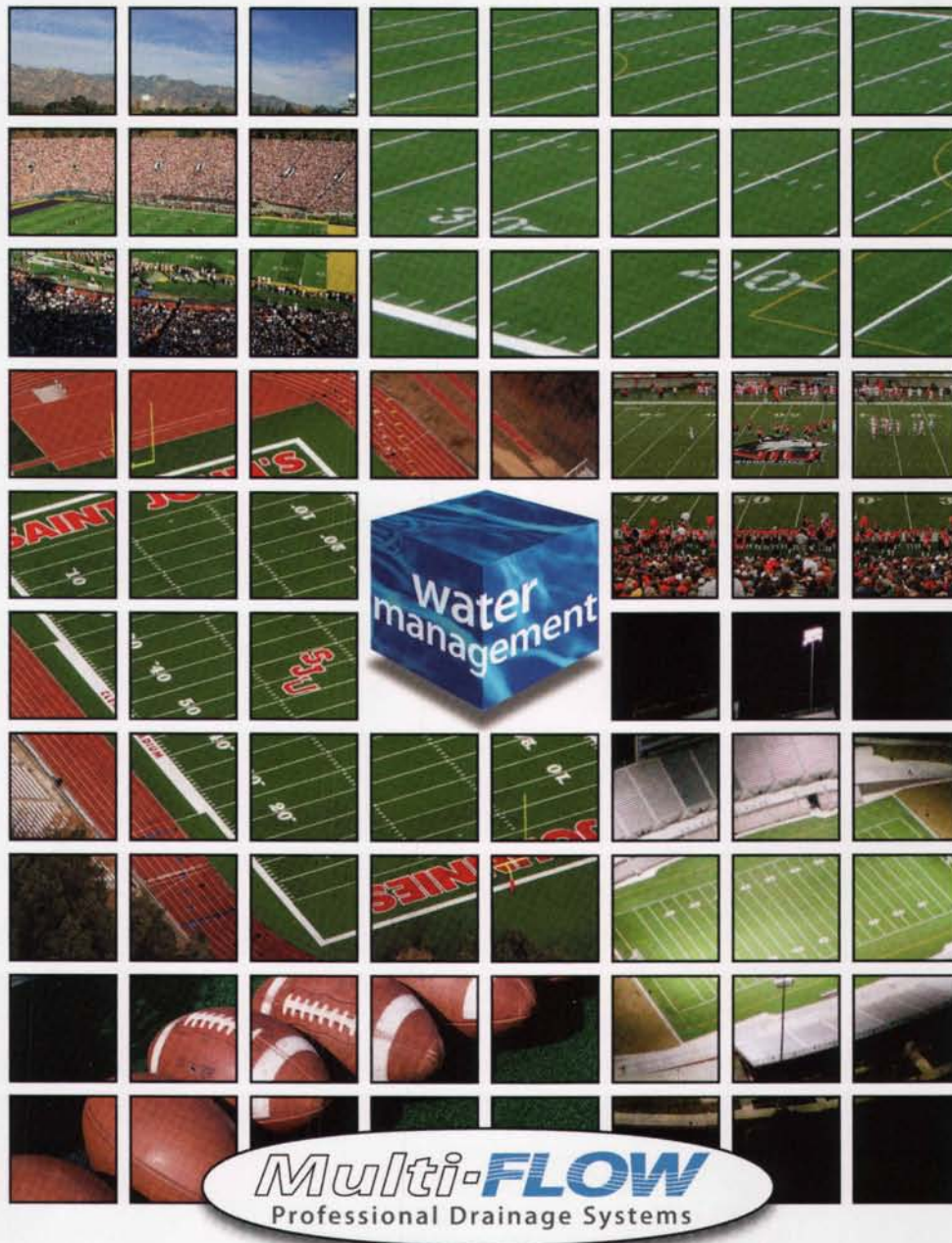
Another significant difference that I noted in the first few weeks is the climate. Everyone says this area has all four seasons. Florida also had four seasons—fall, early summer, mid-summer, and late summer. Most people in Gainesville feel there are only three seasons, basketball season, summer, and football season. Actually basketball season was a new experience in 2006, greatly increasing the city's enjoyment during March Madness. Gainesville residents hope it returns in 2007 so that the summer climate is more bearable while waiting for football season.

I have poked fun at a few obvious differences but in reality with my change in work and research environments, almost everything has changed. Colleagues, staff, and industry expectations are all different to some degree. It is human nature to compare familiarity from the past to new encounters in the present because using experiences is how we build our knowledge base. I feel that changing jobs provides a new perspective that can help energize us not only in our work environment but also our life environment. Change always brings about new opportunities.

I experienced this just last weekend. I was standing at a gas pump putting gas in a can for my lawn mower. A gentleman about fifteen feet away was putting diesel fuel in a large can when he looked over at me and said, "You ever built a baseball field?" At first I thought I must have a turf-grass shirt on or something. That is just not a normal question to ask a total stranger. But I do not think my bike company shirt gave me away. This guy was just making conversation as he was getting ready to fire up a rented bulldozer to build a baseball field in his back yard. He was so excited he just wanted to mention what he was doing to anyone that would listen. His innocent remark resulted in an engaging thirty-minute conversation on slope, clay, grass, and chalk. One never knows when or where the next opportunity to learn or to teach will come from.

I used to get a lot of questions from Florida that I would use in this column. And while I hope to still get a lot of location-specific questions from managers working in the Deep South, I look forward to getting more transition zone questions. Either way thanks for sending the e-mails. ■





Designers, engineers, field managers, and contractors have agreed with us for years: successful water management is at the core of successful athletic field projects. That's why Multi-Flow provides innovative drainage designs, prompt personal service, as well as unrivaled drainage systems. With a Multi-Flow drainage system in place, you can trust that your athletic field is built on a firm foundation.

**Varicore Tehcnologies, Inc - 800-978-8007- service@varicore.com
www.varicore.com**