



CHARTER

Mid-Atlantic Newsletter



PUBLISHED BY:

Mid-Atlantic Association of Golf Course Superintendents to aid in the Advancement of the
Golf Course Superintendent through Education and Merit

Volume XXX

August 1977

Number 8

August Meeting

The August meeting will be held at the Gunpowder Country Club in Laurel, Maryland. Our host will be Bob Milligan. Bob, as you know, is the owner of Gunpowder and does everything there from signing the checks to mowing the greens. This will be the third year in a row that we have had the picnic there, and anyone who has attended before knows how great Bob and our social committee can throw a picnic.

As in past years, the picnic will be a "self-help" picnic. We need some volunteers to bring the following items: potato salad or macaroni salad, vegetable dishes, beans or a dessert. Whatever you choose to bring, it must be enough to serve 10-15 people.

Program for the Day: Golf and Swimming - Anytime
Picnic - 2:00 p.m.
Crabs and Corn - 5:00 p.m.

Directions to the Club: I-95 to Beltsville exit Md. 212 towards Beltsville. Go ¼ mile to Gunpowder Road. Turn left to Club - 3 miles on left.

If there are any questions on what to bring, please call:
Washington - Paul Barefoot (202) 291-2095
Baltimore - Ken Braun (301) 653-1365
Eastern Shore - Ben Stagg (301) 822-4479



BOB MILLIGAN

Future Shock — Are You Preparing for 1984?

(Continued from last month's issue)

The world's food and population problems are inevitably intertwined. In 1970, the world population was increasing at the rate of 69 million/year while in 1975 this annual rate actually decreased to 64 million. The average number of children born per United States woman in 1957 was 3.77, while in 1974 this rate decreased to 1.86. Even in the face of these favorable population statistics, the fact remains that population growth is still occurring at a rate which is outstripping man's productive capacity. Reserve stocks of grain have decreased from 105 days of world grain consumption in 1961 to a perilously low 31 days in 1976.

The world cereal grains rate of production has decreased from 1.91 metric tons per hectare in 1972 to 1.84 metric tons per hectare in the 1975-76 season. This

(continued on page 2)

PRESIDENT'S MESSAGE

Fellow Members,

The summer of "77" will go down as one of the worst that turf managers in the Mid-Atlantic area have had to contend with in many years. Record temperatures coupled with minimal amounts of rainfall have given even the seasoned superintendents many a sleepless night. Turf diseases running rampant make for uneasy days. There's just no rest for the weary.

Our annual picnic is set for Bob Milligan's Gunpowder Country Club in Laurel on August 9th. So bring your wife and kids or your sweetheart, and enjoy a family day. It'll make summer a little shorter, and we can all swap war stories about the summer of "77".

Yours for finer turf for better golf after Labor Day.

Bill Emerson

Future Shock

(continued from page 1)

decrease in productivity is ascribed to several factors ranging from the cost of fertilizer to the fact that surplus acreage brought into production in 1975 did not have the native fertility of soil previously being utilized. This disturbing decrease in cereal grain yield becomes even more notable when it is estimated that we will need a 330% increase in cereal grain production by 2135 to provide man with the same protein diet he is getting in 1975. The farmer of 1970 utilizes the equivalent of 160.5 hp of energy to produce an acre of grain. This is in contrast with the farmer of 1870 who utilized the equivalent of 45 hp to produce an acre of grain. The efficiency and grain yields of the 1970 farmer have increased when compared with that of the 1870 farmer, however, they have not increased in proportion to the expenditure of energy.

It is not out of the realm of reason that somewhere in the future it may be necessary to prescribe exactly what crops can be grown in an attempt to conserve energy. Realizing that some crops such as rice and potatoes are relatively energy inefficient in terms of kilocalories protein derived per unit of kilocalorie energy input. Wheat, oats and sorghum have considerably lower ratios of energy input to energy harvested on a kilocalorie energy input per kilocalorie protein harvested basis. Rice, potatoes, and U.S. grown corn have kilocalorie

(continued on page 6)

Lofts

Pedigreed Seed, Inc.
Features

- **KENTUCKY BLUEGRASSES:**
- **Baron**
- **Touchdown**
- **Majestic**
- **Tri-Plex Blue**
(3 bluegrasses perfectly blended)
- **TURF TYPE PERENNIAL RYEGRASSES:**
- **Yorktown**
- **Yorktown II**
- **Diplomat**
- **Tri-Plex Rye**
(3 ryegrasses perfectly blended)
- **Jamestown**
Chewings Fescue
- **and Custom Blends**



Write or call for further information and current prices.

Lofts Pedigreed Seed, Inc.
Bound Brook, N.J. 08805 / (201) 356-8700

*U.S. Plant Patent #3186, Dwarf Variety

**Protection applied for under the U.S. Plant Variety Protection Act

Vaughan's

SEED CO

DIVISION OF THE VAUGHAN-JACKLIN CORP.

**GRASS SEED • FERTILIZERS
INSECTICIDES • WEED KILLERS
TURF FUNGICIDES**

NEW VARIETIES

**Adelphi • Glade • Citation
Certified Mixtures • Milorganite • IBDU**

Bert Elfrink J. S. Newsome
370-9490

1701 Cabin Branch Road, Landover, Md. 20785
(301) 322-8800

Chimney Rock Road, Bound Brook, N.J. 08805
(201) 356-4200

Buckner
Johns-Manville JM



CLA-VAL CO.



HILLS
P. O. BOX 191, STATE ROAD 613
FRONT ROYAL, VIRGINIA 22630

Distributor for
West Virginia • Virginia
Maryland • Delaware

Buckner Sprinkler Equipment
John-Manville Irrigation Pipe Fittings
For design, modification or
specialty assistance contact

Richard C. Hill, Sr.
(703) 635-3630 or 635-7155

**IRRIGATION
CORP**



Helping the superintendent through turf research ...

- Controlled Release Fertilizers
- Fertilizer Pesticide Combinations
- Fungicides Herbicides - Insecticides
- Soil Testing Weed (Disease Identification)

**SCOTTS • LELY
GANDY SPREADERS**

Finest quality turfgrass seed
Fairways • Greens • Tees • Roughs
Scotts Windsor and Victa blends

TOM COMALLI
Technical Representative
711 Hyde Park Drive
Glen Burnie, Md. 21061
Telephone: 301/969-4216

WAYNE'S PLACE



This has been the "worst summer" I've ever spent as a superintendent. How many of us have said that this year? A better question may be how many times a *day* have we said this to ourselves. We read in the newspapers about the drought problems all around the country, but we here in the Mid-Atlantic find little consolation in the fact that Kansas is hot and dry. We in the Mid-Atlantic are going through another average summer. At best our average summers are rotten. It seems that all of our summers are tough, we just wait to see what's going to make this summer a bit more unique. This year water shortages have cut many of our comrades off. We are, as usual, bathed in a hot, humid region, which a times seems like a rain forest (July 21, 5:00 a.m. 84°, 90% humidity). We are plagued by stagnant air and air quality warnings. This is the Mid-Atlantic area. We can expect summers like these. It's the true professional that can guide his golf course through an environment like this.

Remember, the next time you're walking your course at 5:30 in the morning, and it's 84 degrees and 90% humidity, you've got Pythium in the low spots and wilt on the high spots, keep a smile on your face and hold your head up high, and you'll probably trip over a sand trap rake.



Anyone who would like to contribute an article or just information concerning the water shortage, please send them in to me. We would like to publish an article on the oddball ways some of you guys watered this year.



Starting next month we will start our own little photo-quiz in the Mid-Atlantic Newsletter. We have aerial photographs of many Mid-Atlantic golf courses, care of John Strickland. We will run the photo and give the answer the following month. If you've seen aerial photos of your course, you know how interesting this could be.



BARRICK

Ground Burned Lime

Take the Guesswork Out of Your
Liming Program
BUY

BARRICK'S GROUND BURNED LIME

S.W. BARRICK & SONS, Inc.

woodsboro, maryland
(301) 845-6341

Claude H. Barrick - Res.: (301) 845-8548

1979 marks the 50th year of the Mid-Atlantic G.C.S.A. We on the board would like to celebrate this fact in a big way. The Newsletter will begin trivia questions on M.A.A.G.C.S. history beginning in January 1978. This will be done mostly to give the younger members some insight into the background of our association and to show the increased degree of professionalism through the years. We would also like suggestions as to how the membership would like to celebrate our anniversary. Would you like a formal dance, an antique equipment show, a golf tournament, or all of the above? Please give us your suggestions, and let's make our 50th year a banner year.

MOORE GOLF
INCORPORATED



GOLF COURSE
INSTRUCTION
IRRIGATION
RECREATIONAL
FACILITIES

P.O. DRAWER 916 • CULPEPER, VIRGINIA 22701 • 703/825-9211

SEEDS

TURF GRASSES

BULK ROOT MULCH
TERRAGREEN PRODUCTS

FERTILIZERS & HERBICIDES
EASY MARKER PAINTS

PHONE (Area Code 301) - 752-3415

WM. G. SCARLETT & CO.

608-632 PRESIDENT STREET
BALTIMORE, MARYLAND 21202

Membership Applications

The following people have applied for membership in Mid-Atlantic G.C.S.A.

Paul O'Leary, Class B
Eagles Nest Country Club
Towson, Maryland

J. T. Conroy, Class D
Martingham Golf Club
St. Michaels, Maryland

Robert Miller, Class F
LESCO Products
Wilmington, Delaware

Joseph Watson, Class F
Watson's Garden Center
Lutherville, Maryland

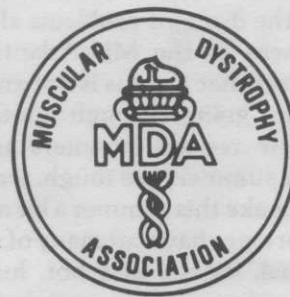
Steve Fowler, Class D
Assistant Supt.
Hunt Valley G.C.
Hunt Valley, Maryland

Ronald Bailey, Class
Shenandoah Retreat
Wilson Blvd., Winchester, Virginia

These names have been published in accordance with M.A.A.G.C.S. by-laws. If there are any reasons why these men should not be accepted as members, these must be submitted to the Board within 30 days.

SUPPORT
YOUR LOCAL

Muscular Dystrophy



CHAPTER



FOR THE PROFESSIONAL TURF MANAGER

BORDEN INC./5100 VA. BEACH BLVD.
NORFOLK, VA. (BOX 419-23501)

G.W. "Junior" Ruckman, Jr., Rt. #1, Box 390J.
Middletown, Va. 22645 — Phone: (703) 869-2628

TORO

ADAMS EQUIPMENT, INC.

TWO LOCATIONS

8001 Newell St.
Silver Spring, Md. 20910
Tel.: (301) 585-1322

2205 E. Joppa Rd.
Baltimore, Md. 21234
Tel.: (301) 668-0500

Baltimore to Silver Spring Toll Free: 792-0456
DISTRIBUTORS OF QUALITY LINES OF TURF EQUIPMENT



Fungicides

3336 Turf Fungicide A broad spectrum systemic fungicide that prevents and controls all six major turf diseases.

Bromosan Turf Fungicide The newest broad spectrum systemic fungicide for those persistent trouble areas.

Spectro A combination contact and systemic which controls dollar spot, copper spot, brown patch, and leaf spot.

Caddy
PMAS (10%)
Spotrete
Granular Turf Fungicide
Cad-Trete

Herbicides

MCPP
MCPP Plus 2,4-D
Methar 80
Methar 30
AMA Plus 2,4-D
AMA (Super Methar)

Specialties

All Wet
Clear Spray
Tru-Green
Grass-Greenzit

WA-CLEARY CHEMICAL CORPORATION

1049 Somerset Street, Somerset, NJ 08873
(201) 247-8000



COUNTRY CLUB PRODUCTS

FERTILIZERS
HERBICIDES
FUNGICIDES
FERTILIZER SOLUBLES
FERTILIZER/HERBICIDE COMBINATION

SOLD THROUGH DISTRIBUTORS ONLY
LEBANON CHEMICAL CORPORATION
P.O. BOX 180, LEBANON, PA 17042 (717) 273-1687



TOTAL MANEUVERABILITY

THE HUSTLER 272A MOWER

Truly a professional piece of grounds-keeping equipment, the HUSTLER mows areas where hand-mowers have been necessary. The HUSTLER becomes an extension of the operator, allowing one man and one machine to complete complicated mowing tasks that can take a variety of machines and two or three men.

CALL TODAY!



WATSON'S GARDEN CENTER

301/321-7300

1620 YORK ROAD / LUTHERVILLE, MARYLAND 21093

Dates to Remember

- AUGUST 9
Family Picnic
- AUGUST 24
USDA Turf Field Days, Beltsville
- SEPTEMBER 20
Suburban Country Club
- OCTOBER 11
Woodmont Country Club
- NOVEMBER 11
Maryland Country Club
- DECEMBER 13
U.S. Naval Academy
Election Meeting

There are few, if any, jobs in which ability alone is sufficient. Needed also are loyalty, sincerity, enthusiasm, and cooperation.



Quality golf course products

- Trap stone sand-produced from marble to guarantee uniform near-white color ... ideal texture ... no oversize particles.
- CAMELIME dolomitic agricultural limestone.
- Crushed stone and sand aggregates for golf course construction and maintenance.

CALL CARROLL DAVIS AT 301-823-7000



HARRY T. CAMPBELL SONS' COMPANY
DIVISION OF THE FLINTKOTE COMPANY

100 W. PENNSYLVANIA AVENUE
TOWSON, MARYLAND / 301-823-7000



301-335-3700

- Sterilized Top Dressing-
- Top Soil-
- Peat Humus-
- Shredded Tan Bark Mix-

- Our top dressing is formulated especially for the transition zone to specifications recommended by U.S.G.A. and leading universities
- Eliminates additional liming when used as recommended.
- Absolutely no waste.



919-443-5016

Future Shock

(continued from page 2)

energy to kilocalorie protein ratios of 10.0, 4.2 and 3.6 respectively while wheat, oats and sorghum have ratios of 3.4, 2.7, and 0.2 respectively. It is possible that future crop production may be determined more by energy input per unit of energy output ratio than by current methods.

When one considers that man's beef, dairy, pork, fish and fowl requirements utilize the equivalent of approximately 38 barrels of oil per year as opposed to man's consumption of non-meat products which utilize

(continued on page 8)

Ground Management

Yazoo
Howard
Goodall

- Sales
- Parts
- Service
- Supplies

Lyons & Lyons
SALES CO. INC.

Glen Arm Road, Glen Arm, Md.

665-6500



TURF CENTER

1409 SPENCERVILLE RD. (RT. 198)
SPENCERVILLE, MD. 20868
PHONE: 384-6300

PENNCROSS BENT

Ready for Play

Scott's Transition Blend
State Certified Blends

PRO4

Diamond
Shamrock



Everything you need to control diseases
and weeds in turf and ornamentals.

Ten turf diseases and almost 100 kinds of weeds yield to the Diamond Shamrock Pro-4 turf system. One broad-spectrum fungicide. One preemergence herbicide. One postemergence broadleaf herbicide. One postemergence grassy weed herbicide. That's Diamond Shamrock Pro-4.

DACONIL 2787®. The new chemistry fungicide. And now it's a flowable, as well as a wettable powder.

DACTHAL® preemergence herbicide controls *Poa annua*, crabgrass and 15 other weeds. Available in two formulations: wettable powder and granules.

DACAMINE® postemergence herbicide. Non-volatile 2,4-D. Kills more than 70 broadleaf weeds.

DACONATE® 6 postemergence herbicide. The organic arsonate with a high-quality surfactant already mixed in.

Regional Office Three Commerce Park Square
23200 Chagrin Boulevard
Beachwood, Ohio 44122 216-464-5620

Diamond Shamrock Ask for our Product
AGRICULTURAL CHEMICALS DIVISION Information sheets.



Cornell Chemical & Equipment Co., Inc.
3500 Washington Blvd.
Baltimore, Md. 21227

DISTRIBUTOR FOR LOFTS SEED
PHONE: (301) 247-1525
Clifford S. Case
Don Klein



G.L. CORNELL COMPANY
TURF EQUIPMENT



16031 INDUSTRIAL DRIVE • GAITHERSBURG, MARYLAND
(301) 948-2000

Turf Equipment

JACOBSEN TRACTORS & GANG MOWERS
CUSHMAN TURF TRUCKSTERS • BEAN SPRAYERS
HEAVY DUTY ROTARY MOWERS • SEEDERS
SWEEPERS • SOD CUTTERS • TRAILERS • WOOD
CHIPPERS • TURF FUNGICIDES • SPRINKLERS
GOLF SUPPLIES

16031 Industrial Drive
Gaithersburg, Maryland
(301) 948-2000



GAMES



Come One . . . Come All

to our

ANNUAL

GOLF

MAAGCS Family Picnic

KIDDY RIDES



August 9th, 1977

AT

GUNPOWDER COUNTRY CLUB

VOLLEY BALL



FOR INFORMATION CALL:

Paul Barefoot - (202) 291-2095

Ken Braun - (301) 653-1365

Ben Stagg - (301) 822-4479

Directions and times in
"August Meeting" article on page 1.

SWIMMING

BADMINTON

Future Shock

(continued from page 6)

the equivalent of 14.1 barrels of oil, it becomes obvious that in the face of limiting energy availability it is likely that the diet of the average American will tend to switch from high energy intensive meat products to lower intensive grain products.

It is an accepted fact that the arable land available today cannot feed the world's 4 billion people at the same rate the people of the United States eat. Surplus food stocks have become perilously low and it is possible that in bad years this will mean increasingly frequent and large spread famine in the world. It seems very likely that the need to justify turf fertilization will periodically arise. There will be increasing pressure to lower rates of nitrogen fertilization on turfgrass. The short lived fertilizer crisis of 1974 was frightening, however, the fertilizer industry responded to the demand very rapidly by producing 11 new nitrogen plants in 1975 and increasing their capacity to produce nitrogen 700,000 tons per year. The rate of nitrogen use has increased approximately 8% per year in recent years, however, the 15 million tons of nitrogen to be produced in the United States in 1977 appears to be adequate for the expected market. Barring a natural gas crisis, nitrogen availability is expected to meet demand at least through 1980. It is estimated that the recoverable reserves of phosphorus could last us anywhere from 45 to 450 years, depending on the economic return derived from recovering the

phosphorus. The phosphorus use rate appears to be increasing at approximately 4.5% per year.

Seventy-five percent of the potassium utilized by the United States comes from Canada, and it is estimated, considering current use rates, that in the Province of Saskatchewan there is equivalent of 2,000 years of potassium available. The availability and cost of this material will be highly dependent upon the strength of our relationship with Canada.

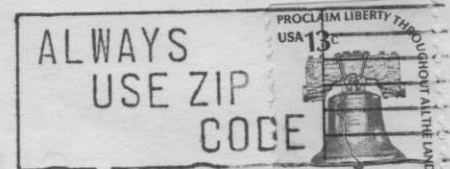
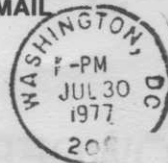
One of the most recent changes being imposed upon the turfgrass industry has been brought about by the increased price of natural gas and its necessity in the production of nitrogen. There is not expected to be any serious shortage of nitrogen, phosphorus or potassium through 1980, however, there is expected to be a considerable switch to urea as the nitrogen source in mixed fertilizer because of the economics of producing urea as compared to ammonium nitrate. ■

The conclusion of this article will be in the September issue of this newsletter.

Mid-Atlantic Newsletter

WAYNE EVANS
1804 Ironton Drive
Oxon Hill, Maryland 20021
301-567-9386

FIRST CLASS MAIL



Published monthly by the Mid-Atlantic Association of Golf Course Superintendents to aid in the advancement of the golf course superintendent through education and merit.

Subscription rate for non-members: \$5.00 per year.