

BRIEFS



BRAME BREAKFAST SPEAKER

DALLAS — Robert A. Brame, a certified golf course superintendent working with the United States Golf Association Green Section's Mid-Atlantic Region, will speak at the annual prayer breakfast at the International Golf Course Conference and Show. Brame, ordained in 1984 by Carmel (Ind.) Baptist Church, has served as an interim pastor for several churches while working in course management. The event will be at 7 a.m. Sunday, Feb. 6, at Loew Anatole Hotel. The breakfast is open to all faiths.

GCSANJ DONATES \$20,000

The Golf Course Superintendents Association of New Jersey raised \$20,000 for Project FAITH (Fitness Activities in Therapy), an organization dedicated to providing physical fitness programs to children with cancer. The annual GCSANJ Championship, a raffle and a gift from Deal Golf & Country Club provided the money.

ON THE MOVE

Andy Bowen has left his assistant superintendent's position at Reynolds Plantation in Greensboro, Ga., for greener pastures. He has accepted the head superintendent's job at the Old North State Club in New London, N.C., about 50 miles outside of Charlotte. Old North State was voted the second best new private club for 1993 by Golf Digest.

Terry Vassey, formerly assistant superintendent at The Standard Club in Duluth, Ga., and instructor at Horry Georgetown Technical College, has accepted the position of golf course superintendent at Berkeley Hills Country Club, also in Duluth. Vassey is also an instructor at Gwinnett Tech.

Eagle Watch Golf Course in Stockbridge, Ga., has a new superintendent. Rich Franke has accepted the head superintendents job after manning the same position at the City Club of Marietta.

Ron Schaffer has accepted the head superintendent's position at Ponce de Leon Resort and Conference Center in St. Augustine, Fla. Schaffer had been assistant superintendent at the Golf Club of Georgia in Alpharetta.

TURF EVALUATION PROGRAM MOVES

National Turfgrass Federation, Inc. has moved its National Turfgrass Evaluation Program (NTEP) to BARC-West, Bldg. 002, Room 013, Beltsville, Md. 20705. The phone number remains the same: 301-504-5125.



Dr. Carrow's cultivation research to improve compaction, water use

By PATRICK O'BRIEN

Dr. Bob Carrow, researcher at the University of Georgia Experiment Station, significantly reduced surface and subsurface compaction and improved water uptake of a common Bermudagrass turf grown on a compacted clay soil.

As part of the \$5 million 1983-92 United States Golf Association (USGA) Turfgrass Research program, this discovery will help turf managers develop and justify cultivation programs for tees and fairways that will ultimately result in more efficient use of irrigation water.

Numerous studies to evaluate different

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cultivation techniques have been funded by the USGA Research Committee at the University of Georgia. This study was performed on a Cecil sandy clay loam with 55 percent sand, 18 percent silt, 27 percent clay and a 2 percent organic matter content. Each common Bermudagrass plot was compacted with a smooth power roller when the soil was near field saturation.

From previous cultivation studies, the Verti-drain was most effective in making physical soil improvements deeper in the profile, while hollow tine coring was best at improving soil surface conditions. The frequency of Verti-drain treatments, as well as the combination of Verti-drain and hollow-tine coring, were further explored in this new study.

Two annual Verti-drain and hollow-tine



coring combination treatments consistently reduced soil compaction and improved root water extraction. Penetration resistance reductions of at least 25 percent occurred in all zones. Root water extraction was improved from 33 percent to 71 percent within the soil profile.

In very hard soils, loosening the surface initially with core cultivation will allow improved Verti-drain penetration. With the upper three inches of the profile less compacted, the Verti-drain will expend maximum energy at lower depths. After the first year, the research demonstrated core aeration could be omitted once the upper three inches are softer.

A dense root system is often thought to be the most efficient for water extraction. The Verti-drain actually decreased total root length density and total root length in this study! However, the roots left behind were more viable and extracted water from the soil more efficiently than roots in the compacted control. Root data may not always correlate well to water uptake in cultivation studies. The Verti-drain also enhanced overall water uptake as demonstrated by evapotranspiration (ET)

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SPRING START-UP

This is a healthy root system, thanks to the drill bit. Aeration has become a staple for spring start-up programs. For more on aerification and fertilizers, and innovative ways superintendents are tackling the challenges, see pages 30-33.



The right way is the cheapest way — Buchen

By MARK LESLIE

CHARLESTON, S.C. — While growing and maintaining quality turfgrass are critical to a golf course operation, groundskeeping costs can be cut in many ways, according to Terry Buchen, superintendent at Double Eagle Club in Galena, Ohio.

Speaking at Golf Course News' recent Public Golf Conference, Buchen said: "Do things the right way. That's the cheapest way."

He suggested a number of cost-cutting measures, including:

- Portable two-way radios for full-timers. "They are the biggest efficiency tool I've seen in years. We save one hour per radio per day of wasted time just trying to find each other," said Buchen, adding that speaker microphones are installed on Double Eagle's equipment.



Terry Buchen

- Do away with the buddy system: I usually don't like it.

"On some projects — like running a chain saw — it works. But you get much better production without the buddy system.

- Draft a labor flow chart, including every job done in the entire year, from mowing greens to raking bunkers to aerifying. It helps you discover if the grounds crew has too many or too few people.

- Turn on the Weather Channel, and monitor it. "It's saved a lot. We go out and fertilize when we see the storm coming. We save pumping, electricity costs and water," Buchen said. "I leave it on all the time. If a storm is coming we let everyone know. The local radar is shown every five minutes. It's for the preceding 90 minutes, so you can track the storm yourself, figure your cloud cover, precipitation..."
- Install several rain gauges on the course. ("I have one in my house.")

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SUPER FOCUS

Joe Lightkep has gone from 18-year-old superintendent to owner at Fairway G&CC in Pennsylvania. See page 26.

Distinguished Service Award

New Jersey supers honor Kubik

The Golf Course Superintendents Association of New Jersey has presented its 1993 Distinguished Service Award to longtime supporter and Grass Roots turfgrass supply company owner Ken Kubik.

A member of GCSANJ since 1976, Kubik was involved in

starting *The Greenside* newsletter in 1980, then co-edited and wrote for it.

He is a past member of the New Jersey Turfgrass Association board of directors and serves on the board of the Alliance for Environmental Concerns.

New York turf expo attracts numerous experts

SUFFERN, N.Y. — Nationally known experts on subjects ranging from golf course planning and construction to turf maintenance and athletic field management will feature the expanded Turf and Grounds Exposition II at Holiday Inn here Feb. 16-17.

The New York State Turfgrass Association's conference will provide updates on current trends, procedures and the latest research results.

Products and services to be displayed include turf maintenance equipment, fertilizers, supplies, chemicals and seeds.

Stress management of turf will be the

opening topic.

Other subjects will be aquatic weed control, New York State aquatic regulations, pond and lake management, grounds management, grounds maintenance, turfgrass scouting, economics and agronomics of fertilizers, flowers in the landscape.

Also, athletic fields, turf stress of 1993, environmental future of turfgrass management and environmental risk management for the turfgrass industry, product registration; new herbicides for turf and landscape use, and golf course planning and construction.

Speakers will be Ms. Maureen Serafini, NYS DEC; Drs. Joseph Neal and Norm Hummel, Cornell University, Dr. Frank Rossi, University of Wisconsin; Donald Gabel; Dick Roberts, Goshen School District.

Also, James Horning, Pilot Field, Buffalo; Alain Grumberg, Grumberg's Gardening Service; Dominic Morales, SUNY Delhi; Robert Jones, West Point.

Robert Emmons, SUNY Coleskill; James White, White Engineering, and Stephen Cadenelli, Metedeconk National Golf Club.

GCSAA bringing big money to Big D

DALLAS, Texas — "Big D" will realize big dollars from the largest International Golf Course Conference and Show in the golf course management industry at the Convention Center Jan. 31-Feb. 7.

Area economy expects a \$15 to \$17 million infusion from expenditures by the projected 16,000 participants. Local hotel/motel, restaurant and entertainment markets will be chief beneficiaries.

More than 630 manufacturers and suppliers will display the newest products and services in the golf course management industry. Golf courses in the United States reportedly spent an estimated \$4.96 billion on golf course maintenance and capital expenditures in 1993.

Money-saving tips

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"I can't tell you how many storms will water half the course and not the other half. We keep records of all four rain gauges. Sometimes we water half the course and not the other half," Buchen said.

- Install a rain switch, which costs \$100 to \$200, to shut off the irrigation — and save the pump as well — when it rains.

- Join a bulk purchasing program with other courses, such as the one available for members of the National Golf Course Owners Association.

- Guarantee a supplier you'll buy certain products exclusively from them if they give you a deal.

- If you own two or more golf courses, get a national account from manufacturers.

- Use Extension services. They offer expert advice free of charge.

- Plant native grasses and ornamentals where possible.

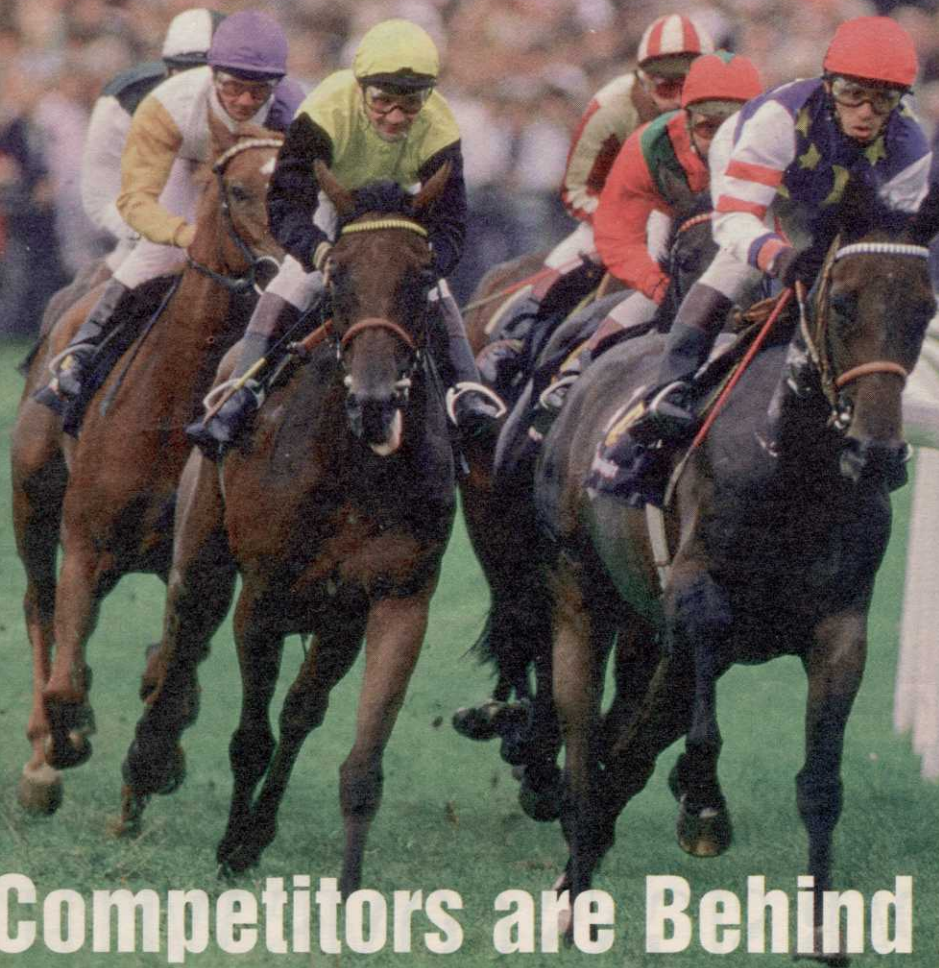
- Investigate use of a new creeping bluegrass from Europe called Supra Nova (*poa supina*), which is "the best stuff I've ever seen for heavy traffic or shaded areas."

"It does not wear out. It has some real potential for the transition and Northern climates," Buchen said. While Supra Nova seed costs \$50 per pound compared to \$7 to \$8.50 per pound for bentgrass, it can be mixed at 5 percent with other grasses.

Buchen also suggested that golf courses offer free golf to police and fire departments. "It can pay off in added security for your facility," he said.

The annual Public Golf Conference will be incorporated this year into the new Golf Course Expo, Nov. 10-11 at the Orlando (Fla.) Convention Center for superintendents, operators and developers.

When it Comes to Performance...



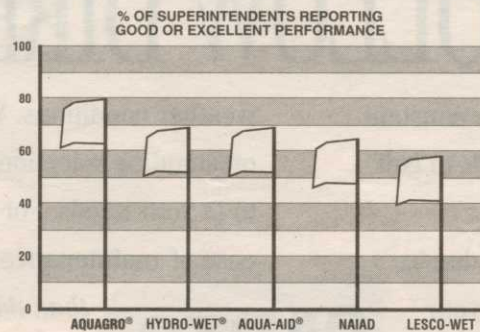
Our Competitors are Behind Us 100%.

Since 1954 when AquaGro® was introduced to the nation's golf courses, hardly a year has passed that some company didn't come along with a *new* wetting agent. Most products have vanished like the morning dew they claimed to control. A few brands have managed to demonstrate their residual effectiveness, but year after year AquaGro remains the hands down favorite among golf course superintendents...because on the golf course performance counts.

The Top Performer

Don't just take our word for it. According to a survey of golf course superintendents conducted last winter by the Center For Golf Course Management's Market Research Division, AquaGro remains the most popular brand by a large margin. CGCM found that more AquaGro users are satisfied with the product than users of any other brand of soil wetting agent.

To our delight not only did AquaGro receive the highest satisfaction rating, it also received the lowest "poor" rating. Only 1.5% of the superintendents responded that they were dissatisfied with its performance. Among the leading competitors 8.1% of the Naiad users, 7.6% of the Lesco-Wet users, 6.1% of the Aqua-Aid® users and 3.7% of the Hydro-Wet® users rated the performance of their wetting agent as "poor".



We sincerely thank the nearly 1000 superintendents who participated in this survey, and the thousands of loyal AquaGro users who vote each year with their budgets.

Satisfaction Guaranteed

In addition to being the most popular soil wetting agent on the market, AquaGro is the only one carrying a money-back performance guarantee.

AquaGro is available in Liquid, Spreadable and Pellet formulations. Aquatrols also offers the Little Squirt and P.P.M Unit precision irrigation injectors, the Advantage™ pellet applicator, the Dilute 'n Shoot™ hose-end proportioner and the Dose-It™ portable injector.

If you're not already using AquaGro, it's time you discovered why the first wetting agent is still the best. AquaGro is available from your local Aquatrols turf products distributor.



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