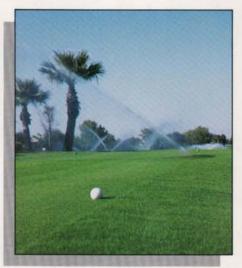
Palm Desert Greens Country Club is positive proof.

Maintaining one of the heaviest played executive golf courses in Southern California is a challenging job. An average of 290 rounds of golf a day puts tough demands on the turf, and on the irrigation system. That's why golf course superintendent Robert Stuczynski recently installed Weather-matic rotary pop-up sprinklers to upgrade the system at the Palm Desert Greens Country Club.

Stuczynski was won away from a brand he's used for more than a decade by Weathermatic's high quality design and features. The exclusive

adjustable armspring allows fine-tuning while the sprinkler is on or off, and *stays* adjusted once set — a must for handling Palm Desert's exacting schedule of watering or fertilizing.

Weather-matic impact drive, rotary pop-up sprinkler heads are available in rugged cast



aluminum alloy and high impact plastic housings for your longrange or medium-range needs from golf courses, parks and athletic fields to commercial use.

Designed for years of dependable service, they offer many outstanding features. Like the backsplash control arm on K-50/80 and PK-50/80. And the optional check valve, available on PK models, to prevent backflow in low areas and damaging line surge. Plus only Weather-matic can help reduce your inventory with interchangeable parts for plastic and metal housings.

When you team up our rotary pop-up sprinklers, controllers and valves, you have a combination that can't be beat. Just ask Stuczynski. He's now finalizing a plan to changeover the entire Palm Desert system to Weather-matic. Because Weather-matic works.

Write or call for all the details.

You can't beat the system.



Sprinkler Division/Telsco Industries P.O. Box 18205 • Dallas, Texas 75218 214/278-6131







Denser, darker green Manhattan II takes the bruises for your athlete

What goes up must come down... and that goes double for athletes' knees and elbows.

Improved Manhattan II perennial ryegrass has a built-in cushion developed through genetic improvement. The greater tiller density of Manhattan II takes the punishment athletes dish out, then springs back to retain its great-



looking appearance. All that toughness...with improved mowability to boot!

Manhattan II also provides a darker green color than the old standard Manhattan; improved disease resistance, drought and shade tolerance as well as fertilizer savings.

Manhattan II was developed to save on maintenance costs ... but the *real* saving is on knees and elbows!

"Fall on the leader"

Qualified turf associations can earn cash for turf research by saving Manhattan II blue tags. Contact your dealer for details.

CERTIFIED SEED

Oregon

Manhattan II

PERENNIAL
RYEGRASS

NO. 123456

TURF-TYPE PERENNIAL RYEGRASS

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Nothing is more effective and longer lasting than CHIPCO* RONSTAR* G herbicide.

When you're up against tough competitors like crabgrass and goosegrass, play to win. Protect your golf turf with CHIPCO RONSTAR G herbicide.

No other herbicide can match it for preemergent control.

No other herbicide can give you such excellent control for a whole season with just one early application.

No other herbicide is so tough on grassy weeds yet so safe on all major turf grasses — with no root pruning or inhibition. And it won't harm nearby trees, ornamentals or ground cover either.

In short, no other herbicide can match the winning form of CHIPCO RONSTAR G.

Don't lose your grip on crabgrass or goosegrass this season. Get your hands on CHIPCO RONSTAR G herbicide.

Rhône-Poulenc Inc., Agrochemical Division, Monmouth Junction, NJ 08852.

CHIPCO RONSTAR Spread the word.

Circle 153 on Postage Free Card

CHIPCO® and RONSTAR® are registered trademarks of Rhohe-Poulenc Inc

Computerized Irrigation continued from page 40

"Using a modem, our system will work with any system via a telephone line," Shoemaker notes. "It is not necessary to have a dedicated home line."

Motorola and Solar Wind now offer radio communication of commands. Motorola introduced its radio-operated system at the Irrigation Exposition in Fresno this past fall. Radio commands can provide a convenient way to test various FSTs while in the field or to send commands to FSTs from the central computer. This provides an alternative to wires or telephone lines as well as enabling one person to test the system from the field.

Computer prices are quite competitive. When you amortize the purchase price with the water economies plus the labor savings, a computer can pay for itself within a few years. Exact figures are not available, but those who sell them offer their own estimates.

The economics of computerizing an irrigation system need to be closely evaluated. With water costs going up, the user has to determine in his own mind what the return on his investment will be.

Over at Buckner/Royal Coach, Canterbury admits, "A computer is considerably more expensive than a solid state controller—but then, it does considerably more. At the present time, managers of residences and smaller projects would probably not be interested because of the price.

Today, we may be addressing a small market in computerized irrigation, as compared to controller sales—but the potential is definitely there.

Demand will rise in harness with water and power costs. Indeed, it is already increasing at an extremely rapid rate.

While exact figures are not available, in 1984 it was estimated that there were already some 1,500 computer systems in use in the nation in both farming and turf, while world-



Irri-Trol's dedicated computer irrigation controller was designed with economy in mind.

wide the number was well over 7,000. Since that time, sales have clearly accelerated.

It's easy to see why. As noted, people are becoming more aware that water is a precious commodity that is becoming very expensive. There is a great need to learn how to conserve. While water shortages have hit our sunbelt states particularly hard, they have occurred on the East Coast as well.

The irrigation industry is catching up with the technological world of the computer industry. The computer is undoubtedly the best automatic system today. The main reason for its growing popularity is simple: *It works*.

The only limit on the uses of the computer is the imagination of the individual who is running it.

We all need to have visions of grandeur. Although some goals may not be immediately feasible, still we must have them. Without goals and aspirations a business will not grow.

That is why we must expand our personal horizons to encompass the computer age, which is all around us and must be acknowledged. From giant mainframe computers to video games, the computer is everywhere. If we put this valuable tool to our own good uses, the end result will be conservation of vital natural resources and easier, more accurate water management, which can lead to greater savings or greater profits.

Don't miss the boat. More and more of us are climbing aboard. Using a word processor, this article was input into—a computer.



When there's a lot on the line, professionals choose TORO!



That's why TORO was a key performer at Munich, Montreal and Los Angeles

Stadiums that hosted three of the last four Olympic Games chose Toro 640 sprinkler heads for the vital task of irrigation when the eyes of the world were focused on their turf. No wonder! Toro 640s are safe, with a very small 2½-inch exposed surface. And they install ½-inch below grade. They pop up 2¾" for efficient watering, then fully retract with heavy duty stainless steel springs. To top it all, these superior sprinklers are backed by Toro's 5-year warranty. Oh, about the fourth Olympic site, Moscow? Well, we really don't know, but we'd be willing to bet that the Russians wish they had invented the Toro 640! Toro, the leader in sports field and large turf irrigation products.

The Toro Company, Irrigation Division Dept. LI-884, P.O. Box 489, Riverside, CA 92502





Excellence in Irrigation™

PRINCE TO EXPAND TPC STADIUM COURSE



Executives of Prince Contracting Company, Bay Venture Corporation, NCNB National Bank, Ron Garl Golf Course Architects, Inc., and the Tournament Players Club break ground for the second 18-hole 'stadium golf' course at Prestancia.

Prince Contracting Company and two of its subsidiaries have been chosen to mold and shape the 18-hole addition for the PGA Tour Tournament Players Club at Prestancia, FL. The announcement was made by William Ross, Jr., vice president of development and construction of Bay Venture Corp., the developer of Prestancia.

The addition includes a second 18-hole "Stadium Golf" course and a 35,000 square foot clubhouse, to bring the value of the Prestancia club to \$14.5 million. Golf course architect Ron Garl told sports TURF Prince was selected from a group of four qualified contractors. Edward Connor, vice president and general manager of Classic Golf Course Builders, a Prince subsidiary, will direct construction of the addition. Connor, a civil engineer, has been involved in the construction of the Jack Nicklaus-designed Bears Paw Club in Naples, FL; the Mission Hills Country Club in Rancho Mirage, CA, designed by Arnold Palmer and Ed Seay; the Singletree Country Club in Vail, CO; The Greenbriar in White Sulfur Springs, WV; Firestone Country Club in Akron, OH; and the new Number 7 course at Pinehurst in Pinehurst, NC.

The new course at Prestancia is the brainchild of PGA Tour commissioner Deane Beman. The "Stadium Golf" design will entail the addition of more than one million cubic yards of earth, says Garl. There will be unobstructed views for thousands of tournament spectators provided by earthen mounds and natural amphitheaters on virtually every hole.

In an unusual construction technique, separate crews will work the two nines at the same time to have the course playable by January 1987. Prince Contracting will do the grading. Its subsidiaries, Classic Golf Course Builders and Classic Irrigation, will finish the job. Suppliers to the project include Toro Irrigation, Pumping Systems, Inc., Auto-Flow, Southern Turf Nurseries, and Wesco-Zaun.

Designer Garl said the course will be "very Scottish, quite rolling," with many trees. It will be a lengthy 6,910 yards from the Senior TPC tees and 5,597 yards from the ladies' tees.

BASF CHANGES ENKA TO GEOMATRIX SYSTEMS

Enka Geomatrix Systems of Enka, N.C., has been renamed Geomatrix Systems. This change follows the recent acquisition of American Enka Company by the Badische Corporation, a subsidiary of BASF, West Germany. Other product groups were also included in the acquisition.

As a result of a major restructuring of the North American operations of BASF, the combined fibers operations have been renamed BASF Corporation- Fibers Division.

Geomatrix Systems produces a line of three-dimensional geomatrix materials for erosion control, drainage, soundproofing and vibration control in highway and heavy construction, building and related industries.

P.L. Skoglund, Jr., director of Geomatrix Systems, said, "Geomatrix Systems is proud to be a part of this major new fiber company. We look forward to taking advantage of the combined resources of this new company."

OUTDOOR POWER EXPO KEEPS ON GROWING

Six months before its July 28 show date, the International Lawn, Garden & Power Equipment Exposition already has more exhibitors signed up than last year. Considering that the show is only entering its third year and already has more than 400 companies exhibiting, the Expo is rapidly becoming an industry benchmark.

Despite a change in show management, the Kentucky Fair and Exposition Center remains the show site and the 70-member Outdoor Power Equipment Institute remains the show sponsor. The event will be held

July 28-30 in Louisville, KY.

The Expo emerged as a splinter show from the various national hardware and garden shows. The mower, engine and lawn care equipment manufacturers felt overshadowed by lawn furniture and gas grills.

They wanted a show where they could demonstrate their equipment and deal face to face with distributors. More than 230,000 square feet of convention center and four acres of field will be utilized this summer. The Expo is expected to make the list of the ten largest trade shows in the nation this year.

Although it is intended only as a show for distributors of retail and commercial equipment, each year a few more end users can be found trying out the equipment before it even reaches their dealer's showroom.

Colorite, the nation's largest manufacturer of garden hose and a new exhibitor, reports a recent poll of its buyers and merchandisers indicated many were attending the show. "The bottom line is that we want to be where our buyers are to present our products and programs and answer their questions," says Colorite vice president Ray Mistretta.

The Kentucky Fair and Exposition Center (KFEC) decided this winter to phase out its exposition development department which ran the Expo.

Sports turf managers who would like a sneak preview of 1987 equipment should contact Expo 86, P.O. Box 70465, Louisville, KY 40270.

MONCRIEF HONORED BY USGA GREEN SECTION

James B. Moncrief, the developer of Tifdwarf bermudagrass and former southeastern director for the United States Golf Association Green Section, has been honored by that association with its 1986 Green Section Award. The award has been presented annually since 1961 for distinguished service to golf through work with turfgrass.

Moncrief, of Athens, GA, retired in 1982 after 21 years with the Green Section. The award was presented during the GCSAA Conference in San Francisco in February.

OHIO GCSAA CONSIDERS SPORTS TURF AID

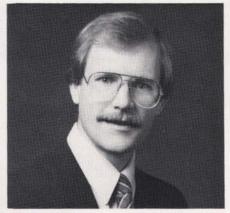
The Northern Ohio Chapter of the Golf Course Superintendents Association of America is considering a sports turf aid program similar to one established by the Greater Washington, D.C., chapter recently. The proposal, made by Frank Dobie of Sharon Country Club, Sharon, OH, calls for a voluntary program where superintendents offer assistance to school administrators with athletic fields.

Dobie stated in the Chapter newsletter, "I see this as a golden opportunity for us to be recognized by the general public for our professional expertise and at the same time advance the quality of turf for our young athletes. Everyone wins.

'The approach will be to first make everyone aware that we do have an alternative to poorly constructed and ill-maintained sports turf surfaces that contribute to many athletic injuries. Secondly, we can provide the direction through which these fields can be improved. This is where we, as golf course superintendents, can enter the picture. With our individual experience in construction and maintenance, we are naturals to consult with our own local school systems.'

Dobie is asking the chapter membership to endorse the project and to volunteer their time and talents to a school system, either directly or through the association.

GROWTH SPURS MOBAY TO APPOINT CAFFREY



When Mobay created the Specialty Products Group four years ago, Allen Haws found his new job as director of marketing for the group challenging and comfortable. In those four years, however, the group grew so rapidly that Haws found himself in need of reinforcements. That help came recently in the person of Mark Caffrey, who fills the new position of advertising manager, Specialty Products Group Division.

Caffrey brings to Mobay three years experience in marketing planning for Kansas City Power & Light Company and five years as account executive for two major Kansas City advertising agencies.



Circle 109 on Postage Free Card

Dedoes Model H 3-Point Mount -For fast, easy hook-up, and rugged, dependable aeration!

> From golf courses, parks and athletic fields to commercial use, the Dedoes Model H is the "big job" aerator that smart superintendents depend on. Patented, hinged tines for clean plug removal are standard on 2-3-4 or 5 drum units with 36-60 or

120 tines per drum. Heavy duty solid steel construction utilizes low-cost cement blocks for weight. So if you're looking for power and dependability in a low-maintenance aerator . . . look into a Dedoes aerator today.

Ask about our full line of Aerators and Groundskeeping Equipment.



313-624-7710 • 800-521-7086 Grounds Maintenance Division 1060 W. West Maple Rd. . P.O. Box 575 . Walled Lake, Michigan 48088

ALOTISONTHELINE

With Safe Athletic Fields

Player Injuries * Team Records * Alumni/Fan Support The Spirit of Sports * Your Job

Why face all this responsibility alone? There is an association of fellow sports field managers waiting to share their experiences with you. Members of the Sports Turf Managers Association include grounds superintendents of high school and college campuses, park superintendents, and field managers for professional football, baseball, and soccer teams. Each member has something to lend to the advancement of athletic field management.

STMA members manage utility turf, fine turf, cool-season turf, warm-season turf, clay fields, sand fields, and even artificial fields. They are anxious to share what they have discovered that works.

The bottom line is budgets are matters of

fact, not luck or secrets. And, today, persons responsible for millions of dollars of recreational property need facts.

STMA members exchange their ideas through a bimonthly newsletter, regional seminars, and an annual conference and show. The membership directory puts the names and phone numbers of fellow members and suppliers at your fingertips for help in emergencies, or just for bouncing ideas off of each other.

Be your own expert with the help of fellow sports field managers. Fill out the membership coupon below and mail it today. You don't have to face the challenges of sports field management by yourself anymore.

irf id Ave.,
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ROOKIES

PRODUCT UPDATE

TRACTOR-ATTACHED GRADER



The MT/Comboplane enables sports turf managers to scrape, scarify, level and finish with one unit. Designed for three-point hitch tractors, the unit leaves a fine, smooth grade on virtually any type of soil.

The Comboplane consists of a front scraper with side soil retainers that controls grade. Behind the scraper is an hydraulically-controlled scarifier to penetrate and lossen soil. Following the scarifier are three planning beams for leveling. The final finishing attachments are optional.

Made of heavy gauge steel, the comboplanes come in three widths, 5, 6½ and 8-feet. One pass of the comboplane is the equivalent of four passes with separate units. Pivotal scarifiers allow scarifying and grading in one direction and grading in reverse, without raising the scarifier assembly.

METROTURF, INC.

Circle 151 on Postage Free Card

DECORATIVE AERATOR



The lake fountain aerator improves the appearance of lakes and ponds in a another way with Otter-Rock. Barebo has taken the floating surface pump unit and disguised it as a group of rocks jutting up through the surface. The fountain, which creates tur-

bulence and oxygen exchange in potentially stagnant ponds, can be anchored at any location in a lake.

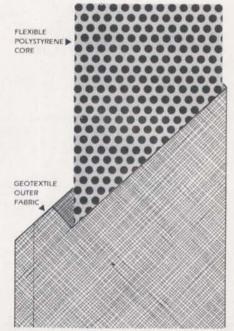
The only installation required is a waterproof power cable which leads from shore to the Otter-Rock. For night enjoyment, up to six Fountain-Glo lights can be incorporated into the floating unit.

Otterbine aerators are designed to control the biological problems of algae buildup and unpleasant aquatic odors. The fountain-like spray action complements the appearance of recreational facilities, golf courses, and residential developments.

BAREBO, INC.

Circle 132 on Postage Free Card

THIN DRAIN FOR TURF



A narrow two-inch-wide trench is all that is needed to install Turf Drain, a prefabricated composite drainage line for inadequately drained turf areas. Developed by two engineers as a replacement for French drains, the thin polystyrene core is surrounded by a geotextile fabric. Hydrostatic pressure forces water through the filter fabric into the void created by the waffle-like plastic form. As long as the line is provided a one percent slope, the silt-free water flows freely to the outlet point.

Gravel backfill is not required; sand or native soil is used to backfill the narrow trenches. Turf will grow back over the twoinch surface cut without the need for sodding. This enables a turf manager to correct drainage problems with the least disruption to the turf and with less labor.

TURF DRAINAGE CO. OF AMERICA Circle 134 on Postage Free Card

POWERED RAKE



Smaller tractors with 15 or more horsepower can operate Glenmac's five-foot double roller landscape rake. The PTO-driven unit pulverizes seed beds or base paths as it removes rocks, roots, and trash. The result is a soft open surface free of stones and debris. All debris is windrowed by the rake for easy removal.

The five-foot wide version was adapted from the company's eight-foot wide model for larger areas and larger tractors.

GLENMAC, HARLEY DIV.

Circle 169 on Postage Free Card

MOISTURE SENSING CONTROLLER

You don't have to leave the controller to make field adjustments or install probes at valve locations with Griswold's Scanex. All moisture monitoring information and adjustments can be made at the controller.

The electronic sensors are stainless steel alloy probes connected to the controller with two #14 UF direct burial irrigation wires. Low voltage AC signals provide the controller with the necessary information on root zone moisture levels.

The Scanex eliminates the need to manually calculate evapotranspiration and precipitation rates and the other guesswork associated with some control systems. It also prevents irrigation during rain unless indicated by the sensors.

The manufacturer estimates savings of 50 percent per year on water and labor. Harmful overwatering and waste are stopped as soon as the Scanex is turned on.

GRISWOLD CONTROLS

Circle 126 on Postage Free Card

ROOKIES

PRODUCT UPDATE

BROADLEAF HERBICIDE



Tough-to-control broadleaf weeds in athletic fields and golf courses are effectively eliminated with a new amine formulation of Super D Weedone from Union Carbide. The combination of 2,4-D and dicamba, both as diethanolamine salts, when applied to established turf, will control more than 46 broadleaf weed species, including dandelion, wild garlic and thistles.

The new herbicide is packaged in one, 2.5, and 55 gallon size containers to meet the needs of managers of both large and small acreage. Amine formulations are less prone to drift than ester formulations.

UNION CARBIDE

Circle 249 on Postage Free Card

INSTITUTIONAL **SPRINKLERS**

The new "I" Series of sprinklers from Hunter Industries is the culmination of years of

sprinkler design experience. The gear drive is sealed in oil for vibration-free, quiet operation. Positive stops and fixed arcs keep sprinkler nozzles pointed only toward landscaping. A slip clutch reduces the chance of damage to the drive mechanism.

Vandals are thwarted by low visibility, small surface diameter and a locking cap with a stainless steel set screw. Each head is protected by a factory-installed heavy-duty, impact-resistant rubber cover. Low head drainage is halted with a drain check valve.

Backed up with a five-year unconditional warrantee, the "I" Series offers a variety of nozzles included with each sprinkler and a wide range of arcs from 30 to 360 degrees. Each head pops up four inches to clear grasses and groundcovers.

HUNTER INDUSTRIES

Circle 200 on Postage Free Card

PULL-BEHIND AERATORS



Mobility, speed, and ease of attachment and detachment are features of pull-behind aerators from Terracare Products Co. These units, used individually or pulled as a gang, can aerate turf anywhere a gang mower can go. The manufacturers claims an entire golf course can be aerated in two days.

A battery-powered hydraulic pump raises and lowers the tines for use and transport. The aeration holes are spaced 3 1/2 to 4 1/2 inches apart. Twenty tines are attached to each disc. Three models are available ranging from seven to 16 discs. Each disc rotates on needle bearings on a 1 3/4 inch shaft. The models aerate a swath from 22 inches to five feet in width.

Attachment and detachment involve two pins and a wire harness. Units weigh from 650 to 1450 lbs.

TERRACARE PRODUCTS CO.

Circle 122 on Postage Free Card

FOOTBALL FIELD COVER

Rain or snow shouldn't cause cancellation of events if you have field or rain covers from Covermaster. The tough, yet lightweight rain cover can help warm up a field during cold weather or keep rain from turning the field into a mud bowl.



To battle winter temperatures use the covers to form a pocket in which to blow warm air underneath or let the sun's rays warm the cover. Field covers by Covermaster are heavy-duty protection for natural or artificial turf. They have been used to cover fields for rock concerts, mud bogs, and rodeos. They are waterproof and resist cigarette burns. They resist puncture by heels, chair legs, or other sharp objects. The rain covers are waranteed against materials and workmanship for one year, field covers for two years.

COVERMASTER INC.

Circle 228 on Postage Free Card



Circle 216 on Postage Free Card