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**HOLDS
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AUTOMATICALLY**



A new achievement from Buckner engineering! Here are the industry's first all-new automatic valves which hold discharge pressures constant even if inlet pressures fluctuate. The Buckner 150GER Series Electric Automatic Valve with Pressure Control is designed for any installation where uniform coverage is essential. The Buckner 150GER Series helps you get the coverage for which your system was designed—every time you use it...day or night.

- Assures uniform coverage
- Can be manually operated
- Five angle or globe sizes—1", 1 1/4", 1 1/2", 2", 3"
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- Slow-closing device to eliminate water-hammer
- All operating parts removable without disturbing valve body.

Designed for all industrial turf installations—golf courses, athletic fields, stadiums, parks, cemeteries, schools, military installations, freeway landscaping, industrial building grounds.

Eugene Country Club, Eugene, Oregon. Designer: Robert Trent Jones, Inc., Palo Alto, California. Completely uniform spray coverage is assured any-time of day or night. 230 Buckner 154GER Electric Automatic Valves with Pressure Regulators were installed throughout this 125-acre installation.





Sycamore Planned Community, Danville, California.



Port of Oakland Industrial Park, Oakland, California.

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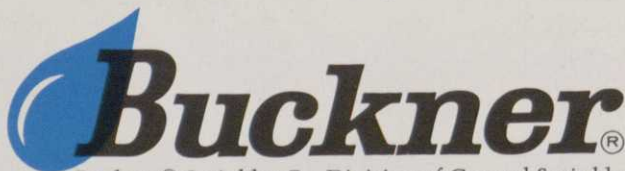
Over the past 50 years, Buckner has supplied manual and automatic sprinkler equipment to the greater part of the industrial turf market. There must be reasons. There are...

- The broadest line of sprinklers and accessories on the market. Literally a sprinkler head, valve or controller for *any* application.

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- Factory distributors where you need them—when you need them.

Only the most knowledgeable men in the industrial irrigation industry represent Buckner, the finest name in sprinklers. Call the Buckner professional nearest you.



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deer in the area are protected and they have taken a liking to my greens. Are any chemicals available that will repel deer from the greens? (New York)

A. We have no first-hand knowledge of deer repellent chemicals but first I would suggest coal tar placed in pans around the greens. Next in line would be mothballs. A company in Reading, Pa., makes chemical repellents for deer and rabbits, but I've seen no results first hand. Without implying anything pro or con, here is the name of the company: State College Laboratories Dept. N, 30 N. 8th St., Reading, Pa. 19601. □

EMERSON Continued from page 16

It would be difficult, if not impossible, to cite the various laws in their entirety, but in order to help those considering such legislation we do quote those pertinent parts of three of the laws which should be of the most assistance to those who are interested.

Section 193.-202, Florida Statutes:

"Whereas, there is a need for open spaces, parks and greenery in the communities of this state; and

"Whereas, savings are realized by the public through the development and maintenance by private interests of outdoor recreational and park lands containing landscaped areas; and

"Whereas, lands surrounding and in the vicinity of outdoor recreational or park lands are enhanced in taxable value because of the existence of such outdoor recreational or park lands; and

"Whereas, privately owned outdoor recreational and park lands provide recreational facilities which otherwise would have to be provided by governmental authority and would, therefore, not be subject to real estate taxes; and

"Whereas, outdoor recreational and park lands require and make little or no demand upon governmental authority for governmental services; and

"Whereas, it is the intent of the legislature to encourage the es-

tablishment and maintenance of privately owned outdoor recreational and park facilities;

NOW, THEREFORE, Section 1. Chapter 193, Florida Statutes, is amended by adding section 193.202 to read:

"... The owner or owners in fee of any land which is utilized for outdoor recreational or park purposes may, by appropriate instrument... covenant with the governing board of any county in this state within which said land is located for a term of not less

than ten (10) years that the said land shall not be used by the owner for any purpose other than outdoor recreational or park purposes.

"... (3) ... the subject of such conveyance or covenant shall be thereafter assessed as outdoor recreational or park lands upon an acreage basis, so long as such lands are actually used for outdoor recreational or park purposes...

"... (6) (a) 'Outdoor recreational or park purposes' includes, but is not necessarily limited to boating, golfing, camping, swim-

Continued on page 74

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TOO THIN!**



**Milorganite provides
two and one-half
times more nitrogen.**

Based on recommended coverage, naturally organic Milorganite provides *two and one-half times more nitrogen* per thousand square feet than the synthetic "light-weight high analysis" fertilizers.

But two and one-half times more nitrogen isn't the whole story. Milorganite has a natural balance of *ALL* the plant food elements needed for healthy turf.



Golf Courses Use More

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Than Any Other Fertilizer

Space-age training for your club

Today's basic, standard pieces of audio visual equipment can be put to work in the nation's clubs here and now.

by G.V. "Jerry" Marlatt, CCM

Manager, Northmoor CC, Highland Park, Ill.

Many of us, I'm sure, have often wondered why, with all the advances in audio visual equipment for training purposes, nobody has done anything for those of us in club work.

Well, that's not quite true anymore, as I learnt when I went to a recent educational meeting of the Greater Chicago Chapter of CMAA held at the offices of the Midwest Visual Equipment Company.

Mr. Martin Mendro, educational sales manager for the company, explained to us some of today's basic, standard pieces of equipment that we can all put to very good use—right now.

Here they are from the "bottom" on up.

First he showed us a "Flip Chart." It was a large (24" x 48") easel type binder of loose leaf pages hinged at the top. As points are stressed to the audience on the front side, through cartoons, large type messages, or charts, the speaker is reading from the reverse side of the previous sheet, which the audience does not see.

This could be used for new employee orientation. It would also permit any employee to be a trainer for new employees in club rules, policy, privileges, etc.

The second stage of the same type presentation is to photograph the material, page by page, and use it as slides. The information is then typed for a script, and the trainer can read the information to the employees while the slides are being shown on a screen.

Mr. Mendro then went into the "hardware" that is now available for use on a mass basis.

First he demonstrated a tape cartridge, utilizing an "amoebus", which means continuous or repetitive. Through a "twist" principle, and coating both sides of the tape, you can add some seven and one-



Fairchild Mark IV is cartridge-loaded, 8 mm sound projector, left. DuKane Micro-matic, right, syncs with records, projects 35 mm single frame filmstrips.

half minutes of talk or message on the tape. When it reaches its end, it "twists" and repeats on the second side giving you fifteen minutes total. At the end of the fifteen minutes it can either incorporate a "shut off" signal and stop, or repeat continuously.

This tape can then be used, through the addition of a "triggering-signal" (inaudible signal on the tape), to operate any switching mechanism. This can be either a slide projector or a film strip projector. In this way, the triggering mechanism will advance the slides or film strips automatically, thus providing a synchronized narration for the visual presentation.

We now have the component parts for a low-cost audio-visual program in any club. Your needs would be: a camera (with an electric-eye for simple operation) at a cost of about \$50.00; a stereo tape recorder, with prices beginning at about \$125.00; an automatic-remote control slide projector at about the same price and the "triggering mechanism" which would also run in the \$50.00 range. Add a screen, a script and film, and you can produce your own training slides.

\$500 would be a good budget figure to use if you would like to start such a program.

Next we found that the film strip can be utilized, in much the same way as the slide program, using either phonograph records or taped narration. Through a simple switching device you can also stop the narration and the film strip advancement so that you might "hold" a particular piece of information on the screen for discussion.

We advanced then to the "Single Concept Projector". It is called this because it is limited to four and a half minutes of information. Normally, the average individual can only absorb this much information at one "sitting". This concept uses Super 8 mm film, but does not utilize the "amoebus" loop described before.

In this case, the cartridge is inserted into the projector, which sits at desk-top level much as a table TV set would. but the program ends at

Editor's note: For the manager who may not want to "do it himself," 16 mm. standard and 8 mm. cartridges on subjects useful for training employees are available for purchase or on rental. For a list of the companies offering these materials, write: Editor, GOLFDOM, Universal Publishing and Distributing Corp., 235 East 45th Street, New York, N.Y. 10017.

Continued on page 66



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A two-year warranty.**

Only Harley-Davidson offers a two-year warranty on all major electrical components including batteries.* What makes it all possible? Our exclusive new Master

Drive, for one. Master Drive is why our cars stay out all day long without recharging. And why battery life is greatly increased. Call the dealer who can

prove that, gas or electric, "...a real pro always comes through." Harley-Davidson Motor Co., Milwaukee, Wisconsin.

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*Two-year unconditional warranty on solenoids, speed switch, and resistor. Twelve-month unconditional/twelve-month pro-rata warranty on batteries.

For more information circle number 184 on card.

INTRODUCING... THE FOUR-BAGGER



The first real golf car innovation?
No. Club Car had already developed what is perhaps the best golf car in the world—one which will operate for 108 golfing holes without recharging. This was accomplished through the car's unique patented drive unit and lighter weight. You might call these features "innovations." Others might say that 108 holes is just short of miraculous. Since no other golf car can even approach this performance, we think it's just plain dandy.

And now—a "four-some" car.
Walk 9, ride 9. Call it painless exercise — without fatigue. The "four-bagger" solves the problem. One four-some can rent one car, allowing each person to ride at least 9 holes. If a three-some rents the car, each golfer is able to ride 12 holes. Either way, you pay less, ride more and still get your exercise.

Four-square profits.
If you are a club pro or fleet owner, you can imagine the bonanza. With the four-bagger, you will be able to operate with less cars, yet keep more of them rented at a higher rate per car. For the first time, you will be able to expand your market to include three-somes and four-somes, since these golfers will now be able to afford riding. So you'll have a lower initial investment for golf cars and higher potential revenues. Any way you look at it, Club Car has stacked the cards in favor of both the pro (or fleet owner) and the player.

Pay yourself with a demonstration.
Like most of us, you're interested in additional revenues. After all, the name of the game is profit, and suddenly—with our new four-bagger—your potential has doubled. Call or write us today for a demonstration. That's free.

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Space-age *Continued from page 64*

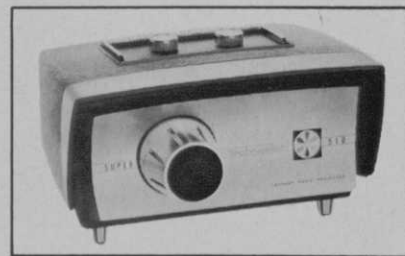
the completion of the cycle or in about four and one half minutes. Special switches can be purchased to stop the program at any point.

In this manner, utilizing either Sound Optical 8 mm film or Magnetic 8 mm film you can have "sound on film" presentation from your own 8 mm Super films shot at the club. There are laboratories which will take your completed (edited and spliced) 8 mm films, plus an edited tape recording to add the sound and package it into a cartridge for you. You can then program your training material into short, easily digested programs for your employees.

Through further utilization of "rear-view" projection, you can then show this material either in available viewers, or onto a screen, or in individual carrels (pupils' booths for use with teaching machines or other training devices) with two or three employees using the materials at the same time.

We were also shown battery operated tape players and projection equipment for recording or showing where electrical service may not be available. Seemed quite the thing for use on the lesson tee.

Another training aid which was demonstrated was an "Audience



Technicolor Super 8 / Model 510 projects four minutes of film per cartridge.

responder box." This enables a trainer to quiz employees in that, by turning a dial, the employee can answer a selective question either by turning to A-B-C-D or "No."

The trainer, sitting at a remote table will see how each of the persons being tested answered a certain question. He may then record the answers on a "master sheet" and ascertain how effective the training has been to date.

The importance of the "No" answer was pointed out in that


Continued on page 70

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with a
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**and
leave the
rest to
Di Fini
Golf Slacks!**



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Cocoona.™ Even the fabric is a pro. If how a golfer looks can improve his game, look for tournament winners in Di Fini slacks. For these slacks are made of "Cocoona" by Pacific—a richly slubbed blend of Dacron* and wool worsted, with a level of wrinkle-resistance unprecedented in such a luxurious fabric. See Di Fini slacks of "Cocoona" in many new fashion colors, featuring the new beltless "Lancer" model with Ban-Rol® waistband. Sold at pro shops only. Or write Di Fini Originals, 367 Southern Boulevard, New York, N.Y. 10454 

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Pacific

For more information circle number 138 on card

ferent method of making the golf shaft (Shakespeare bonds millions of glass fibers into a double-built tubular shaft, with the fibers running lengthwise on the shaft round a fiberglass wall; Golfcraft laminates the glass fibers to a thin steel core), also has good reason to stay around.

According to a company spokesman at Golfcraft, "Our patented process helps the golfer retain all the power of his swing. This means that much less power is lost because of excessive vibration and distortion at impact."

Now, do we turn our backs to those shafts we have been using and go over to the newest, one, aluminum? Well, let's check one more incident in the life and times of the golf shaft.

The name of an old friend popped up in print the other day, not for winning a certain tournament,

because this former Walker Cup star has been doing that for many years, but because he took a big title using the aluminum shaft. We're talking about Dale Morey, who won the North Carolina Open shooting a 66-67-68-72=273 the first time he used them!

Here are his answers to the questions we posed: "After a limited amount of play with the aluminum shafts, I think I may get a little more distance with the irons—I don't think it has yet been true with the woods; I do hit the ball straighter; I do hit the ball higher with the irons; I get a softer feeling out of this shaft and I think it is easier to swing. The thicker shaft does bother me a little, but only in appearance.

"I'm swinging the same swing-weight as before, though the overall weight is lighter; I did find it a little more difficult to control the

direction of "half shots" or three-quarter shots—I left the ball out to the right. But I like aluminum and anticipate having a good year in 1968."

This almost makes you want to run out and buy a set of aluminum shafts. Well, okay by everyone concerned, but one last word about Dale. He also won the 1967 Carolinas' Amateur with *steel* shafts!

How about stainless steel? True Temper has been working with the new steel alloys and has discovered possibilities inherent in the new titanium bearing steel alloy, Almar 362. It possesses approximately the same stiffness as carbon steel, but permits the manufacture of a stainless steel shaft with such superior corrosion resistance it can almost be called a "lifetime" shaft.

It may be on the market next year! And after that? Try to picture shafts of titanium and beryllium! □



- but easy on your turf!
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TIRES**

For you whose work includes the care of fine turf — cemetery, golf course, or park — we have a utility trailer specifically designed for your special needs. Roll-Dump hopper holds a cubic yard . . . or you can take off the hopper and put on a flat bed or wagon bed. Terra-Tires safely carry heavy loads without rutting turf. Champion Doo-All is a rugged trailer designed for years and years of hard work.

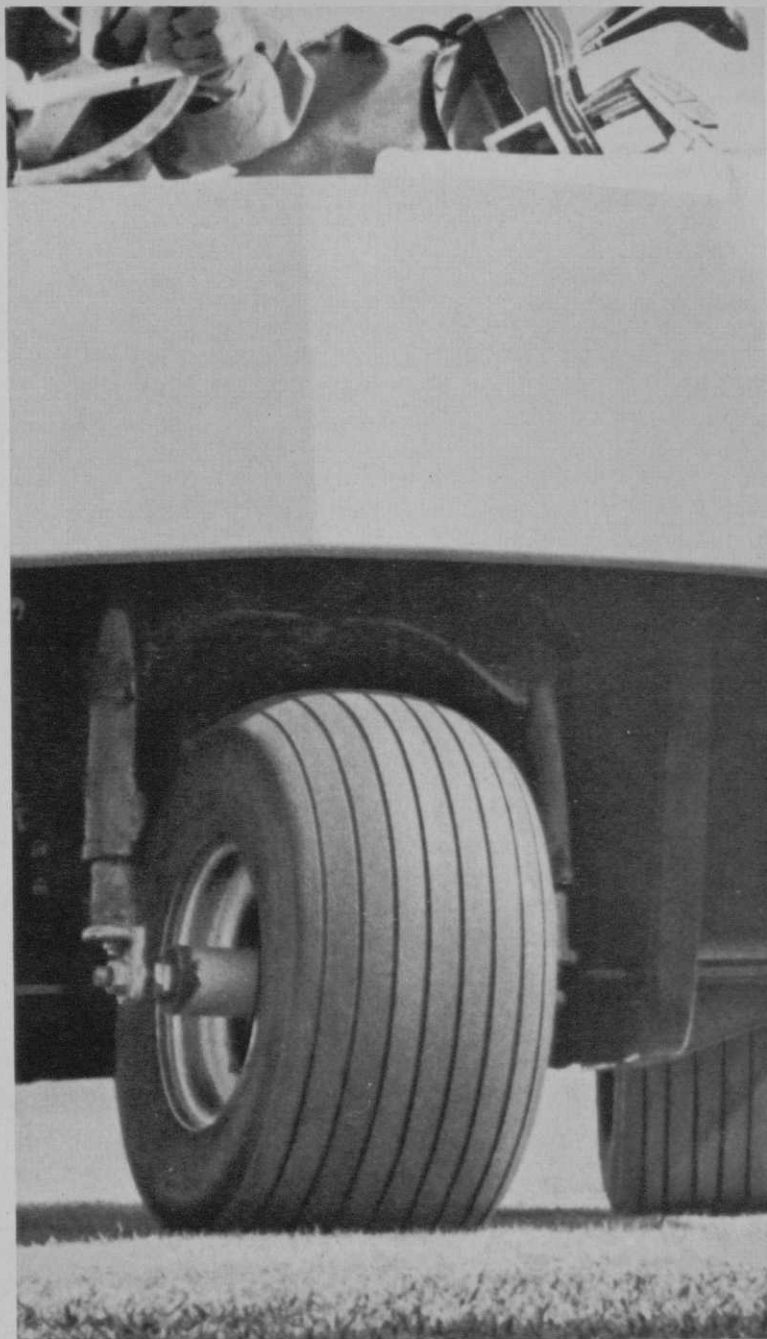
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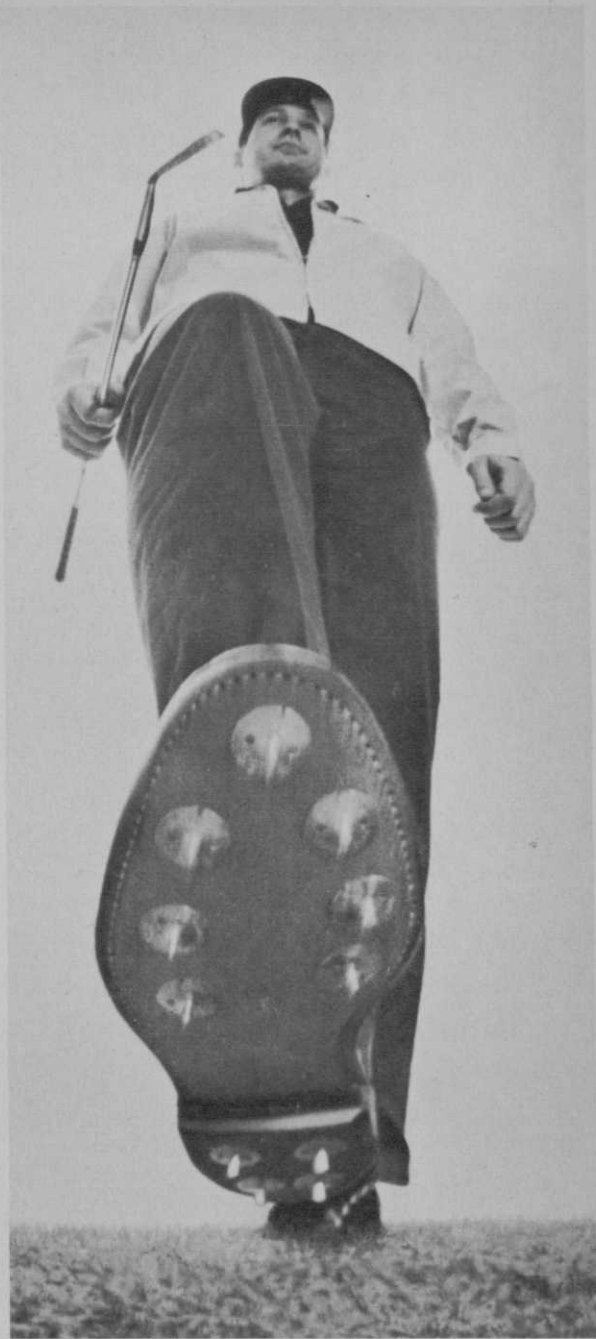
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Riding pressure: 8 pounds per square inch.



Walking pressure: 24 pounds per square inch.

With the Terra-Tire, golf cars are kinder to fairways than golfers.

A 185-pound man can be three times tougher on turf than an 862-pound golf car carrying a golfer and clubs. Even on soft ground, the Goodyear extra wide Terra-Tire distributes weight evenly to minimize turf and fairway damage. And you get extra mobility on slopes and around traps.

The Terra-Tire is available in both rib and traction

tread designs. Because they are tubeless, repairs are simpler. Take the pressure off your fairways with the Terra-Tire from Goodyear. You'll find them on all the best-selling golf cars. For more information, write: Terra-Tire Department, The Goodyear Tire & Rubber Company, Akron, Ohio 44316.

Terra-Tire—T.M. The Goodyear Tire & Rubber Company, Akron, Ohio

GOODYEAR

For more information circle number 210 on card

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... here are the first 40

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For more information circle number 142 on card

Space-age *Continued from page 66*

this is necessary to prevent the person from merely guessing the right answers from the selective answers available.

We then looked over the equipment before we had lunch.

In the afternoon session we were treated to a display of TV tape recording, and an explanation of the various uses for video tape.

For instance, it can be utilized by the golf professional for lessons. The pupil's swing can be video taped and played back instantly, with such features as slow-motion, "stop-action" and comparison.

In the clubhouse, training films can be produced to show anything you could or would want to show on film or in slides from waitress serving techniques to salad making. The superintendent could also use video tape to train his men.

What about some of the costs and problems of using this equipment?

First, it is expensive at the present time. But, like everything else which is mass produced it will get cheaper as distribution increases. Second, there are several manufacturers of video tape recorders at the present time. There are several different sizes of tape from a quarter inch size (1/2 the size of most recording tape you are familiar with, up to two-inch. Costs of tape range from the smallest at about \$60.00 per hour, to the largest, which is astronomical in costs.

The suggested "best" of the sizes is the one-inch tape. This will probably be the accepted format.

Video tapes, of the suggested quality, run in price from \$1,500 to \$2,000. There are, however, \$600 video tapes on the market today. The "top," which is color compatible (capable of recording in color), runs about \$4,450 for the one-inch tape size.

It should be pointed out that for something as simple as a golf stroke, the most inexpensive form of tape is adequate. For finer detail work, such as "close-ups" of boning a fish, better equipment is needed.

It is the same with the receivers, which are quite similar to a home TV set. The simplest receiver can cost \$150, but when the camera

Continued on page 72