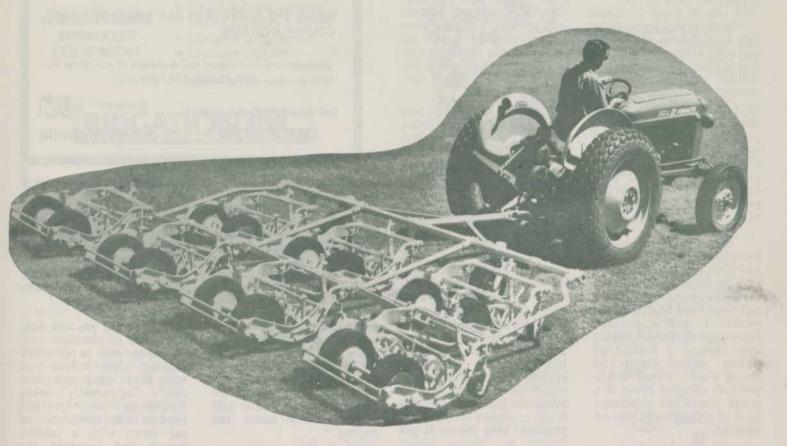
# EQUIPMENT, INC.

Rte. 1 Box 152 Pardeeville, Wis. Phone 608-429-3402

# Roseman Hi-Cut

4 Blade 10" Reel Rough Mower



### GREATER CAPACITY . INCREASED EFFICIENCY . REDUCED COSTS . IMPROVED MOVING . MAXIMUM SAFETY

Roseman Hi-Cut gang mowers with large heavy-duty 4-bladed reels are designed to withstand the rugged demands of tall grass mowing to more efficiently and safely mow dense, thick, deep turf, and to give a better finished appearance.

Roseman rear-drive design, with drive wheels located behind the reel, hugs the ground and eliminates bobbing of cutting reel. Mowing speeds can be considerably increased with all grass cut uniformly.

Roseman rear-drive designs also trim over curbs and shrubbery beds and close to obstructions. Savings in hand labor and small trimming equipment are tremendous. Appearance greatly improved at no extra cost.

Roseman Mowers operate safely at low RPM's and do not throw debris with missile force and potential danger to tractor operators and passers-by. Roseman gang mowers offer maximum possible safety while mowing.

Greater capacity, an improved mowing job, elimination of hand trimming, heavy-duty quality construction and the built-in safety of Roseman Hi-Cut mowers, assure you of efficiency, economies and safety available with no other mower.

FERTILIZER CHEMICALS, AND GRASS SEED

# FORE!

If you have ever hit a golf ball (or been hit by one), you owe it to yourself to find out how that dimpled little sphere, and the game you play with it, got so hard. By BOB DARDENNE

One day, somebody held a little round white object up to the world and said, "Hey, if we put our minds together, this is what we can achieve."

Well, the world strained and squinted and focused and what it finally saw was a golf ball.

Greek shepherds might have swatted stones through the pastures; Roman legions probably batted wooden balls about the battlefields; but Scotsmen first played golf as we know it with feather-stuffed leather pouches, then with solid balls of rubberlike sap.

During centuries of evolution the ball went from rocks, ivory, wood and even iron, to stuffed leather, then the gutta-percha sap. But the ball Somebody held up to the world? It had a viscious liquid core to channel impact into energy, a middle of tightly wound bands of strong elastic thread and a precisely dimpled cover of a tough plasticlike substance born of a thousand chemical equations.

AMERICA HAD DISCOVERED THE GOLF BALL!

Whoever controls the ball controls the game, and once the United States got into golf seriously - in the late 1880s - it took just 20 years for a frustrated golfer in Cleveland to design the ball that shook the Royal & Ancient sport to its very roots.

Golf is royal because at one time balls were so expensive only royalty could afford to play with them, and ancient because, in one form or another, it has been around for centuries. More imaginative minds have suggested shepherds, using their curved staffs as clubs, were the first golfers. The Flemish played a game where one team hit a ball toward a goal a mile away, and the opposing team had a hit in every four to knock it somewhere else. This and a number of other ball and stick games added up to what we know as golf today.



During the 1400s, Scotsmen made golf their national pastime. They used heavy wooden clubs and crudely stuffed leather or wood or cloth balls, and loved the game so that they began to neglect their archery practice. King James II got

Suco Offers

THE FINEST TURF SYSTEM....custom designed to meet your Club's specific needs.

Whatever your needs, we can furnish you a complete line of quality products and all the technical help you will ever need.

WE'RE THE EXPERTS IN ALL KINDS OF GOLF COURSE SYSTEMS!

Sprinkler Irrigation Supply Co. A division of A.J. Miller Inc. 1738 Armitage Court, Addison, III. 60101

Call your SISCO man today!

Buckner®

JM

(312) 629-7730

Johns-Manville

so angry about that, he decreed the game illegal. Golf was often interrupted by royal decree until gunpowder came along. Gunpowder did two good things for golf. First, it got rid of this competition with archery practice, and it gave the bow - and arrow - makers something else to do. They made golf clubs, elevating a primitive skill to an art.

A British essayist and golfer once said, "It is this.. undying hope for improvement that makes golf so exquisitely worth the playing."

PH: 414/242-5740

No doubt, his "undying hope" was for an improvement in the way he played the game rather than in the way the game was played. But such personal goals never stopped Somebody from finding ways to make the game easier.

After all, you can only hit a wad of old cloth or a carved-out root so far with a wooden stick before you want better equipment. And that's apparently what Somebody in Scotland thought in the 1600s when he sat down with a leather pouch and invented the featherie, the world's first designed golf ball.

The featherie was made by stuffing boiled feathers inside a wet leather pouch and placing them in the sun to dry. During the drying, the leather would shrink and the feathers expand and the result after a couple of weeks was a firm ball that was almost round and almost white.

Today's longest hitters, using the best clubs and balls, can drive consistently around 300 yards. In the 1550s a 150-yard drive was

ROY G. ZEHREN

NATURAL ATHLETIC TURF INC.

"PURR-WICK" TEES & GREENS and

conventional turf & erosion control

5322 W. County Line Rd. Mequon, WI 53902



probably talked about for weeks. But in 1836, Frenchman Samuel Messieux playing at St. Andrews in Scotland mashed a featherie off the tee 361 yards.

You can imagine the excitement over the new ball. It, in fact, set the pattern for the evolution of the game. Probably no other sport has developed around a piece of equipment as golf has around the ball. The featherie changed everything but the basic structure of the game.

A more refined ball that went farther meant more refined courses with greater distances between holes. Up to then the links was a public picnic ground where cattle grazed, children played, women washed. Golf's first "caddies" cleared paths through all the activity and found the hole for oncoming players.

Now that balls weren't stones or pieces of wood, clubs could be more delicate, functional and stylish - not just durable. Another thing the featherie did was turn the game over to the rich. Since the fastest ballmakers could make only four a day, prices went far beyond the average man.

The featherie had other problems besides expense. It was useless in rain or damp weather, and it neither bounced nor rolled very well. After a couple of centuries, those things combined with a growing interest in sports for the masses, to set the game up for another revolution, again led by the ball.

Around 1848 a Scotsman named Rob Paterson received a Hindu statue sent to him by a brother who was a missionary in India. The statue came packed in blackish-brown shavings which Paterson ultimately discovered were gutta-percha, the dried gum of a Malaysian tree. What he discovered first, however, was that by heating the shavings he could form solid sheets which, when sewn to the bottom of his shoes, were more durable than leather.

AN IDEA!

Paterson wadded one of his soles into a round ball and tried to play golf with it. The ball was lousy, squirting right and left and barlely leaving the ground. Bored or frustrated, Paterson turned the project over to another brother and moved to Binghamton, New York where he founded American Bible College and died some three decades later, never realizing what he had started.

What Paterson's brother and others learned was that while smooth guttapercha balls were lousy, those with surfaces that had been cut and scuffed were terrific! That's why golf balls to this day have dimples - little indentations that create air turbulence around them, giving the ball a higher and truer flight.

The expensive featherie was almost immediately obsolete and the game of golf came in for massive changes. With cheaper balls in use, golf courses were soon overpopulated with "gutty whackers". New, even longer courses were springing up overnight. Before the gutty, golfers played so many holes in one direction, then played the same ones in reverse. The increased traffic caused courses to be designed with two holes on each green (they played one side going out, the other coming back) and eventually with a separate green for each hole.

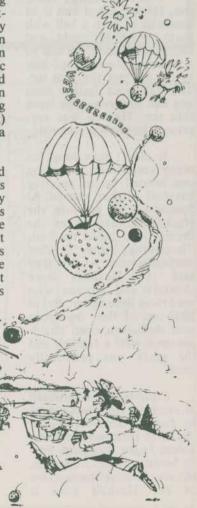
The gutty introduced other problems, too. Golfers found that the beautifully crafted, fragile clubs designed for the featherie would splinter on impact with the gutty, so clubmakers had to come up with more durable clubs without sacrificing the style golfers were accustomed to.

The gutty also tended to fly apart in cold weather, so a rule change allowed golfers to drop a second ball by the largest fragment he could find from the first one. (They scooped up the other pieces and took them home for recycling.)

Commercial industries entered golf for the first time as rubber companies made molds and manufactured gutties, the British then internationalized the game, taking the new rules and cheap balls with them to their many outposts.

For awhile, the game seemd to settle down. The evolution of golf, remember, follows the evolution of the ball, and the gutty was the perfect ball. At least, that's what the English rubber companies of the 1880s were saying. But there was one important thing going on that they couldn't see.

Golf had spread to the United States.



Picking it up from British and Scotch immigrants, Americans liked the game. They imported equipment and played on courses often designed and named after those in Great Britain. On such a course in the late 1890s a sportsman named Coburn Haskell was continually frustrated by the longer drives of his playing partners.

It seems very American to say Haskell thought there must be a way to make his ball sail out beyond his partner's drives. He could have practiced more or changed his swing. He didn't. He changed the ball, thereby changing golf again.

There are many stories on how Haskell became Somebody, but essentially he was sitting waiting for a friend at Goodrich Rubber Company offices, occupying his time twirling some rubber into a ball.

### AN IDEA!

When his friend came out, Haskell asked him if he could cover such a ball with gutta-percha. He could, and did. Haskell took the ball to a course pro and asked him to hit it from the first tee. The ball went farther than any ball had ever gone from that tee. Haskell was surprised; the pro was stunned.

It didn't take long for many companies, including one headed by an amazing baseball pitcher named Al Spaulding, to get into the Haskell business. Even the British, who called the balls "bounding billies," were coming around. At first they said the Haskells were cheaters and anyone who used them little better. But in 1902 one of their own pros won their own open championship with a Haskell and the gutty was practically dead.

Courses were lengthened as much as 100 yards a hole to accommodate increased distances from wound balls. Scores began dropping, partly because of extra distance, but also because construction of the Haskell gave it

backspin which enhanced its flight. It gave golfers the ability to hit high and stop short, whereas before the game had been to hit low and run. Clubmakers, as usual, adapted to the ball, putting ribbed faces on their clubs because ribs increased backspin.

In some ways the story begins with the Haskell. The ball and hit-high-and-stop-short style of play took golf away from its roots and transplanted it in the United States., Since 1902, or thereabouts, U.S. golfers and equipment have dominated the game. But the changes since then in that 1.68 inch diameter and 1.62 ounce ball have been incredible.

In the last 75 years, bizarre things have happened inside the ball. Remember that first rubber core? It went away. Among the things that took its place were solid steel, pulverized steel, Indian ox horn, glycerine, honey, water, ice, dry ice, wine, celluloid, cork, steel pellets (that rattled), compressed air (that ex-ploded on hot days), oil metallic paste, wood, paper, paper pulp, polymeric solid, corn pith, sponge, whiskey (banned by the government), white lead and a thick white! liquid that made another Somebody a million dollars.

In 1930, at a golf ball company, several persons watched as a ball was cut open. The gooey white center squirted out on one man's shoe. He couldn't get the stuff off.

### AN IDEA!

He found out what it was, patented it and made a million dollars selling it as a dressing for white shoes. It may be sold yet.

In the early 1960s, James Bartsch, first doing business in a barn converted from raising chinchillas and then in an icehouse, began rebuilding the cispolybutadiene molecule. Synthetics such as orlon, dacron and nylon had come from such experiments. What he wanted was a solid

golf ball to eliminate the complicated and costly winding process. In fact, from the beginning manufacturers had sought to get around the awkward aspect of production. Bartsch did. And there are several one-piece balls around today, though they aren't popular playing balls.

The one-piece, though, led to a two-piece - solid inside and a cover - that is still popular.

What's left you ask? Well, just a few years ago in California, two non-golfers became intriqued by the flight characteristics of golf balls. Working in their spare





time they rearranged the dimple alignment (taking many off) and massed a bit of the covering at the poles of the ball, keeping it, however, round. What resulted was the gyroscopelike Polara ball which correct itself in flight; that is, it straightens out when it begins to hook (curve to the left) or slice (curve to the right.)

It may be a duffer's dream ball, but it's causing nightmares for the United States Golf Association which doesn't know what to do with it, even though it technically meets

requirements for a golf ball. At last accounting, the association was considering another regulation to ban any equipment that makes golf less a game of skill.

The ball isn't through developing though, and before long Somebody will give the golfing establishment something else to worry about. Patents have been balls issued on with parachutes attached, embedded sirens and mechanisms that emit smoke.

And as sure as you are reading this, Somebody else is out there, doing something else to the golf ball.

# MILAEGER Well and Pump Co.

INDUSTRIES MUNICIPALITIES SUBDIVISIONS

- Deep Well Drilling and Pump Installation
   Well Development by Acidizing & Shooting
   All Makes of Pumps Repaired

- 24 Hour Service TONKA Water Treatment Equipment

# BYRON JACKSON PUMPS Division of Borg Warner Corporation

Line Shatt Turbine Pumps and Submersible Pumps to 500 HP and 1,000 ft. Settings Servicing Wisconsin and Illinois for Over

20950 Enterprise Ave Brookfield, WI 53005 (414) 784-3960 60 \ vars.

640 Pearson Street Dr.; Plaines, ILL 60016 (312) 296-8707

Stedi Flo II & V

let us help YOU! with your tree program

SYSTEMS INC.

2467 South 170th Street New Berlin, Wisconsin 53151

414-784-3556

DISTRIBUTORS OF MAUGET • ARBOTECT 20S • ARBOTECT S • CORREX



"Before I tell you how things went while you were on vacation, let me tell you how very, very sorry I am."

### **GCSAA NEWS**

Two changes in the CGCS program were recently approved by the executive committee:

1. One-day seminars will now be counted as credit toward certification renewal. One point will be awarded for each one-day seminar taken and passed. In the past, only two-day seminars taken and passed were credited toward certification renewal.

2. An applicant for certification now will be allowed to re-take only twice in one year parts of the certification

exam which he failed on the initial exam. If the applicant is unsuccessful on both-re-testing attempts, he must wait one year from the time his application was verified to re-apply to the program. Previously, an applicant could be re-tested as many times as he wished during the years.

The CGCS program is open to any currently employed superintendent who has been a class A GCSAA member for two years.

Please send any information for the Grass Roots to:

THE GRASS ROOTS
Danny Quast,
Jeff Bottensek
P.O. Box 272
Stevens Point, WI 54481
PH: 715/341-1855

# PRESS RELEASE

Congratulations go to Roger Bell, Superintendent at North Shore Golf & Country Club, Rt. 3, Menasha, Wisconsin, for being July's winner of Irrigation Inc.'s Introductory Incentive Drawing.

Roger's parts order No. 2339 for \$21.47 will enable him to choose between any of our monthly prizes which include: Brewer tickets & dinner for 4, Packer Tickets, Lake Michigan Charter Boat Fishing, AM/FM Digital Clock Radio, Golf Cart, Weber Grill, Coleman Cooler, and many more.

If you weren't a monthly winner, you still may win one of the Grand Prizes in December's drawing, which include prizes like color TV's, trips and more.

If you're interested in how to win, contact Irrigation, Inc., 6510 W. River Parkway, Wauwatosa, Wisconsin, or call collect at (414)258-4223.



Reinders

JRF EQUIPMENT — IRRIGATION SUPPLIES

13400 W. WATERTOWN PLANK RD., • ELM GROVE, WIS. 53122 PHONES: SALES (414) 786-3163 - OFFICE (414) 786-3300



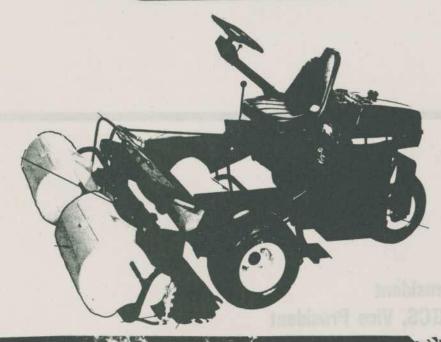
Diamond

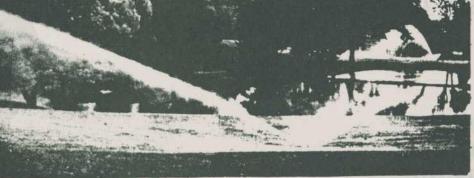
Shamrock











JSHMAN RYAN®

PROFESSIONAL TURF PRODUCTS

**こ**の



# Creed

# Wisconsin Golf Course Superintendents Association

We, the members of the Wisconsin Golf Course Superintendents Association, depend upon the unity, as well as the professionalism of our membership, to cultivate and maintain superior golf turf as well as golf atmosphere.

The knowledge that is gained through continued education and experience in turfgrass maintenance should be openly shared with mutual trust and comradarie among fellow members. To strive for further and continued knowledge and excellence in all phases of golf course maintenance is our ambition. The Proud legacy of our profession depends upon the pride and integrity which each individual takes within himself.

# **OFFICERS**

WOODY VOIGT, President
JIM BELFIELD, CGCS, Vice President
JEFF BOTTENSEK, CGCS, Secretary-Treasurer

## **DIRECTORS**

RON GRUNEWALD TOM HARRISON DAVE MURGATROYD WAYNE OTTO, CGCS DANNY QUAST, CGCS



