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At these trade in values we must keep and use old units for parts even though new equipment is still purchased.

It seems, if one could sell used equipment when upgrading or changing models, that educated people within the industry would pay for the value received and both parties would benefit. At a good auction we could expect close to double this trade in price. Apply this small example to tractors, pickups, dumps, and specialized equipment and you have a successful financial transaction at auction.

So we are asking your cooperation in this good exchange.

1. Between now and March 14th do not trade good equipment and receive little or nothing for it.

2. Repair and overhaul questionable equipment from parts bought at auction or fix up and sell at auction.

3. Purchase a piece of equipment at a fair price which you could not afford to buy new for a limited use requirement. (Sprayers, trailers, pumps, sod cutters, aerators, etc.)

4. Sell items seldom used or that can be replaced upon receiving future jobs requiring that particular piece

and obtain early Spring cash flow.

We feel with the auctioneers cooperation along with ILCA or its members and MAGCS and its members this can be a very successful annual event, as most of us know our equipment needs or excess for the coming season by mid-March.

We will send a copy of this rather long winded introduction to the two Associations mentioned, asking for their formal support and advertising, and in return, offer them a percentage of the auctioneers and our profits from the sale, to add to the scholarship funds of each Association.

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Our firm would expect to spend our proceeds from at least the first several years for space improvement.

With your support and advertising and the support of the followers of the auctioneers themselves, we should be successful even the very first year.

The basic breakdown of the costs for you to have a piece of equipment auctioned at this sale will be:

\$201.00 to \$1,000.00 . . . . . . . . . . . . 8% of sale price 50% of auction fee.

Your calls regarding this auction will be taken at:

312 - 759-0820 Charlie DeWitt 312 - 920-1570 Bob Winter Thank you for your participation.





Mr. & Mrs. Bruce Williams



Mrs. & Mr. Don Hoffman, Keith Fuchs



I. to r. - Mrs. M. Bavier, Mrs. C. Grassl, Mrs. D. Meyer



I. to. r. - Al Fierst, P. Leuzinger, Bob Bautterman from Cal.



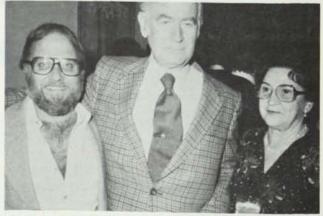
I. to. r. - N. Halloran, J. Koutilla, M. Smith



Mrs. & Mr. Gorden Witteveen



Mrs. & Mrs. J. F. Mitteer



I. to. r. - G. Palrud, W. Bidwell, Mrs. W. Bidwell

I. to. r. - B. Sering, K. Sering, A. Sering, J. Fuchs, A. Staudt.



I. to r. - J. Bertoni, R. Breen, Mike Vogt.



Mrs. & Mr. Tom Burns



I. to r. - B. Saielli, C. Tate, Mike Bavier, G. Witteveen

### **GOLF COURSE DESIGN CHANGE**

Golf Course Designer Joseph Finger predicts that unless something is done soon to bring down the cost of golf course construction, "Golf will revert to the rich man's game it was 75 years ago."

Finger, speaking at the Southwest Turfgrass Association and New Mexico State University, told participants that the golf course with "wall to wall greens" is too expensive to build and maintain and uses up precious natural resources. Golf course designing, he said is one third golf, one third engineering and one third agronomy. Architect Finger, who was a championship golfer in college, owns a small turfgrass farm near Houston.

Armed with the credentials which by his own definition make him a complete golf course designer, Finger travels around the country designing golf courses and talking about problems facing golf course construction. Land costs are high and good land is becoming harder to find near urban areas, he told the audience of agronomists and golf course managers.

Construction and labor costs are escalating right along with interest rates and taxes. "High Taxes", he said are shrinking disposable incomes which finance luxuries such as golf.

Golf course designers also must consider demands made on scarce resources. The acute shortage of water in the west is forcing some golf courses to go to a water allocation system. Water allocation is moving eastward as population pressures increase demands on the water supply. The remedy for these problems is to make the golf course of the future, the golf course of the past. He explained that before Americans created wall to wall greens, golf courses traditionally had been a combination of natural terrain fairways and manicured greens. The natural rough, he believes, adds character to a course using low growing natural grasses in combination with intensively maintained greens, tee's and fairway landings also could save on water use and pumping cost. For example, water use of an average size course could be cut from 220,000 gallons a day to 87,000 gallons a day using natural terrain.

Low maintenance natural terrain requires less herbicides, fungicides and insecticides. There are other ways to lower construction and operating costs without lowering the quality of the course. Designers, he said, should be choosey about site selection, keeping in mind the high cost of excavation. A good designer could cut down on the acreage needed for a course without sacrificing the quality of play. Green sizes could be cut down as well.

"Sand traps are status symbols". Finger said and proposed that 90% of them could be eliminated at a \$30,000 to \$75,000 savings in construction cost. In their place could go grass traps and mounds which would be more challenging to the golfer.

Finger has built championship courses throughout the United States and Mexico. How about that.

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### THE MIGHTY OAK, A TREE OF THE GODS

According to legend, the Romans dedicated the oak to their supreme god, the mighty Jupiter. At one time, every oak was consecrated to him and he was worshipped as the oak-god. At the temple of Jupiter, Roman victors were crowned with oak leaves, which were Jupiter's special emblem.

The Greek god, Zeus, occupied the same place as Jupiter did in the minds of the Romans. And he, too, was closely associated with trees, especially the oak,

which was sacred to him.

The Greeks thought that the oak was the first tree. It was an oak that sheltered Zeus' cradle on Mount Lycaeus and he himself was believed to haunt the sacred oak at Dodona which stood near his temple in the Dodonian Forest. The temple finally was burned in 219 B.C. and the tree was felled in the third century A.D.

It was by the rustling of the leaves of this oak that Zeus announced his edicts to mankind. Usually these rustlings were interpreted by oracles, but it is also maintained by some that the oaks of the grove actually spoke. And more than that, this capacity for speech continued even after the trees were cut down.

Because of this, a piece of one of these marvelous trees was fashioned into the prow of the Argo, that famous ship in which Jason and the Argonauts sought the golden fleece. It is said that as occasion demanded. the prow spoke, directing the crew and warning Jason to purge himself of the murder of Absyrtus.



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Instead, reports Water & Waste Water Systems, Inc., rather than attempting to kill algae after it has already grown and become a visible nuisance, a better way is to prevent its growth by reducing its food supply,

phosphorus.

This can be done by periodic applications of a low cost non-toxic product called Water-Cleer. Tests have shown that Water-Cleer can reduce phosphorus levels in excess of 90% as well as reducing BOD levels up to 75%. BOD is the demand for oxygen in water to destroy the dissolved and suspended contaminent level that may exist.

In addition, Water-Cleer acts to floculate and coagulate the suspended matter in water, including plantonic algae and other micro-organisms that may be present, causing them to sink to the bottom. Water clarity is

quickly improved, usually in hours.

Water-Cleer is packaged as a powder in small five pound cartons, each capable of treating up to 100,000 gallons of water. Water-Cleer is also effective for swimming pools which have become cloudly, turbid and loaded with suspended solids after the winter shut down, a heavy storm, or after refilling with heavily minerialized well water. The suspended matter is quickly coagulated so the filter can remove it.

For details and prices, write or call: Water and Waste Water Systems, Inc. 65 E. Palatine Road, Suite 215 Prospect Heights, Illinois 60070 Phone - 312/459-0330

Easter 1981

Hello Friend Ray Gerber,

You are doing a fine job with the Bull Sheet. I have a copy of November 1978 in front of me. I see it says

Volume 32. Is that 32 years? Congrats.

Many years ago I looked up the records of how much Nitrogen we get from rain and snow. We have often heard that snow is a POOR MAN'S FERTILIZER. WHY? In Indiana they have a saying that when the snow flakes are large and a big snow protects the wheat. Then, it is snowing for the poor. When the snow flakes are small and dry, drifting easily, it is snowing for the rich. Reason: A heavy snow has a lot of nitrogen in it. Plus the fact it protects the wheat from winter injury, or wind burn. Therefore there will be a good crop. Wheat will be cheap and bread will also be cheap for the poor man. Interesting?

One can test the snow by sprinkling a bit of Bray's nitrate powder on it. A pink color will develop. The darker the color the more nitrate nitrogen it contains.

Facts were developed by Connell University many years ago. World wide the amount of N from rain and snow varies from 5 to 20 lbs. of N per year, per ACRE.

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### FLOWERING ANNUALS BRIGHTEN COURSE PLANTINGS

Everything that grows on a golf course is not necessarily green. Flowering plants add a bright touch to the clubhouse and course areas, and some superintendents, like GCSAA Vice President Michael R. Bavier, CGCS, use potted flowers as tee markers on ladies' days.

Two of the most popular flowering annuals in the United States are zinnias and marigolds. Unlike the ever-popular petunias and snap-dragons, which are usually transplanted as bedding plants, marigolds and zinnias can easily be grown from seed. Michigan State University floriculture specialist Lowell Ewart points out that they are quick to flower and persistent, providing bright splashes of color until frost.

"One of the best things about these plants is that they need almost no care," Ewart says. "Toss the seeds on the ground, kick some dirt over them, give them a little water and watch them grow."

Both marigolds and zinnias come in a wide range of flower types and flower and plant sizes. Varieties are available that can be used as tall hedges or screens, as intermediate plantings and as low-growing borders. The range of flower color in zinnias goes from white and cream through pinks and reds, yellows and oranges. There are even some green-flowered varieties. Marigolds come in various shades of yellow, orange, gold, rust and dark red. Variegated flowers are available in both.

Zinnias and marigolds, like most flowering annuals, do best in a brightly sunlit area. For shade, Ewart recommends coleus, begonias and impatiens. Though these can be grown from seed started indoors, he advises that homeowners buy transplants to set out after the danger of frost is past. The multicolored foliage of coleus and the white, pink, salmon, red and variegated blossoms of impatiens provide color to brighten a shady corner. He notes that the newer varieties of impatiens that have variegated foliage need more sun than the standard shade-loving varieties.

A sunbaked spot where many flowers would fail in midsummer is ideal for portulaca, or moss rose. This ground-hugging annual can be seeded direct in early spring or set in May as transplants. It quickly covers an

area with blossoms in a rainbow of colors.

Alyssum is another popular flowering plant. Compact and low growing, it is often used as a border plant. Like portulaca, it can be seeded into the garden or planted as transplants. It grows best in full sun, where it remains covered with tiny white, rose-pink or purple flowers from early summer through frost.

For dry, sunny areas with poor soil, consider nasturtiums. White, red, yellow, salmon and variegated flowers appear about six weeks after sowing and continue until frost. Climbing, semitrailing and upright varieties are available.

For foundation plantings or a low, decorative hedge, try four o'clocks. This old-fashioned plant gets its name from its habit of opening its flowers in late afternoon. It blooms all night, then closes up its blossoms in midmorning. It is easy to grow and very fragrant.

The best way to get good results with these and other annuals from seed is to follow the directions for planting and care on the seed packets and in the seed catalogs, Ewart advises. With good quality seed and a minimum of care, any of these plants should perform well.

Credit - GCSAA Fore Front

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Train the operator to report missing parts on the equipment.

Observe and report general course conditions.

Projecting the need for replacement parts must be taught to your mechanic.

Teach the importance of listening for sounds of

impending problems.

Educate employees with a planned rainy day program.

Never expect a good performance from poor instruction to workers.

Tell the operator to report immediately if equipment is damaging turf or evidence of vandalism appears.

Insist that equipment is kept clean.



### DR. JOSEPH M. DUICH NAMED RECIPIENT OF THE 1981 USGA GREEN SECTION AWARD

Dr. Joseph M. Duich, professor of turfgrass science and turfgrass project leader at Pennsylvania State University, in University Park, Pennsylvania, has been named the recipient of the 1981 Green Section Award, presented by the United States Golf Association in recognition of his distinguished service to golf through work with turfgrass.

In 1961, the USGA established the Green Section Award to honor those persons requiring special recognition for distinguished service to golf in any phase of work with turfgrass, i.e., research, education, extension, superintendence, maintenance, and

management, etc.

The USGA believes that there are many individuals who have made immeasurable contributions respecting the arena upon which the game of golf is played. Their contributions and services may be evidenced by their achievements over a number of years or by a single act.

In continuing to present the Green Section Award, the USGA wishes to identify, celebrate, and hold up for emulation individuals, such as Dr. Joseph M. Duich, who exemplify outstanding dedication to golf through their work with turfgrass.

Dr. Duich, who began his career as a 14 year old boy pushing a hand greensmower, has been dedicated to golf turfgrass improvement in the succeeding 38 years

from turf student to teacher-researcher.

Trained under the late H.B. Musser, professor emeritus of agronomy at Penn State and the 1966 Green Section Award recipient, Dr. Duich earned his B.S. degree in 1952 and his Ph.D. in 1957 in agronomy.

Over the years, Dr. Duich has significantly contributed to better golf through research, teaching, and education. His turf research contributions have been concerned with grass varietal improvement, varietal evaluation, roadside development, weed control, turf-disease relationships, fertilization, and soil modification. Among his breeding contributions are the varieties Pennstar Kentucky bluegrass, Pennfine Perennial ryegrass, and the Penneagle and Penncross bentgrasses.

As a result of his knowledge of and dedication to seed quality, he has devoted considerable effort in the area of turfgrass seed specifications and has long fought for

a separate label system for turfgrass seed.

Concurrent with the research program has been his role in the phenomenal success of the two-year Penn State Turfgrass Winter Course Program which he has directed since 1959. This highly selective program has graduated 636 students from 24 states, Canada, Mexico, and France. Dr. Duich has been instrumental in raising funds for 111 turf student scholarships, the largest such program in the United States.

Dr. Duich serves as the program's technical advisor and has directed the work of many undergraduates, M.S. and Ph.D. candidates. Many of his former students now hold top positions as golf course superintendents and in other facets of the turfgrass industry, due mainly to his tireless efforts to promote training positions and to direct the job placements of

the students with employers.

For his outstanding teaching, Dr. Duich received the Gamma Sigma Delta Teaching Award in 1974 and the Northeast American Society of Agronomy Teaching Award in 1976. The GCSAA presented Dr. Duich with its Distinguished Service Award in 1976 due in part to his teaching contributions and effectiveness. Among

his other honors, Dr. Duich was named a Fellow of the American Society for Advancement of Science in 1964 and was the recipient of the Distinguished Service Award of the Pennsylvania Turfgrass Council in 1974. Dr. Duich is an honorary member of several turfgrass and golf course superintendents associations.

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