



Drs. G. C. Horn, left, turf technologist, and Eliot Roberts, chairman, Department of Ornamental Horticulture, University of Florida, Gainesville, were featured speakers on ASPA program.



Growers Tour Florida Sod Farms During 2nd ASPA Annual Meeting

A different group of sod producers attended the American Sod Producers Association's 2nd annual meeting at Miami Beach January 22 than the initial session at San Francisco last year. This indicates a healthy interest by growers in many sections of the country. Naturally, the 100 or more at the 2nd annual event this year included many regulars who have been instrumental in building the new association of growers.

Big news this year was appointment of Henry W. Indyk, turf specialist at Rutgers University, New Brunswick, N.J. as executive-secretary of the ASPA. Indyk succeeds George B. Hammond, Paint Valley Bluegrass Farm, Columbus, Ohio. Hammond has worked diligently in helping organize and build the association, but felt he could not allot the necessary time in the future which ASPA business will require. Indyk has been active in the sod industry and has done much to promote the industry in his position as an Extension Service specialist at Rutgers over a period of years. Not only does he know many individual

growers, he is familiar with sod production as an industry.

Ben O. Warren, Warren Turf Nurseries, Palos Park, Ill., outgoing president will continue to serve as a director. He had served 18 months as the only president of the ASPA. Elected president for the coming year is Wiley Miner, Princeton Turf Farms, Princeton, N.J. Miner had pre-

viously served as a director. Besides Miner, new officers elected were: Tobias Grether, Cal-Turf, Inc., Camarillo, Calif., vice-president; Jack Kidwell, Kidwell Turf Farms, Culpeper, Va., treasurer and director; and Jim Ousley, Ousley Sod Company, Pompano Beach, Fla., secretary. Other directors who will continue to serve are: Robert Daymon, Em-

ASPA officer slate, left to right: Tobias Grether, vice-president; Wiley Miner, president; Jack Kidwell, treasurer; Henry W. Indyk, executive-secretary; Jim Ousley, secretary; Ben O. Warren, director; and Robert Daymon, director.





Nunes sod harvester in operation at Resmondo farm, first tour stop made by growers. Some 1300 acres of sod is grown yearly in this operation.



Jim Ousley, left, and W. W. (Woody) Resmondo served as hosts to visitors.

chairman of the department of Ornamental Horticulture, discussed coming research at the Florida Station. He stressed the need for research in 11 specific areas of the turf industry.

First on the list by Roberts was the need for improved chemical control of turf growth. Chemicals for use on turf, he said, have not been as promising as those for other plant types. But as we learn more about the growth processes in grasses, Roberts pointed out, we may be able

erald Valley Turf Nurseries, Howell, Mich., and Louis DeLea, DeLea & Sons, East Northport, Long Island, N.Y. Richard Horner, Horner Sod Farms, Wind Lake, Wis., resigned as a director, with Kidwell succeeding him on the board.

Formal Session and Show

Growers spent the first day of their meeting in formal educational sessions. The range of soil and water management, insect and disease control, and weed problem solving was covered by research and teaching staff members of the University of Florida, Gainesville. Dr. Eliot C. Roberts,

Princeton sod harvester was demonstrated at Ousley sod farm. Operating harvester is Vince Grubb, field foreman at Princeton Sod Farms.



to use chemicals to slow down or speed up growth depending on the response desired.

Roberts also expects more selective herbicide use. Since herbicides are growth regulators of one type or another, he said, they exhibit a selective effect on plant type.

He also discussed water use and turf cultivation and the expected new knowledge in these areas. Emphasized also by Roberts is the coming promise of computerized management. We are living in a computer age, Roberts stated. The turfgrass manager with significant input data at his disposal can make good use of computer data, he believes. In this area Roberts listed inputs such as soil test data, leaf tissue test data, grass data, weather history, turf quality required, and normal cultural practices such as mowing practices, irrigation, and pesticide use. With these data properly weighted and fed into a computer, the equipment can be programmed to predict turf response and ultimately lead to control of quality of grass produced. Research is needed, Roberts said, to develop the specific programs and standard methods to make such computer use practical.

Besides the educational program, growers attending the annual meeting had ample time to attend the massive trade show staged by the Golf Course Superintendents. This Trade Show was a part of their 40th International Turfgrass Conference and Show. The ASPA holds its annual sessions in conjunction with the golf superintendents. The show as always, included major exhibits by more than 120 suppliers and manufacturers.

Tour of Florida Sod

Charter buses were used to transport visitors to the Resmondo and Ousley sod operations. During the course of a day-long tour growers also had opportunity to visit a sugar refinery

Automatic sod pick-up, 54"x96", manufactured by Stanco Midwest Sales, Inc., Chicago, Ill., was demonstrated at Ousley farm during tour.



and see some truck crop operations.

Sidelights to the formal meeting and tour were special demonstrations of equipment. Princeton Turf Farms showed Princeton Sod Harvester. This unit was demonstrated on sod at one of the farms of Jim Ousley. Visitors also saw the Nunes Harvester in operation during the tour of the Resmondo Sod Farm.

Don Morrill, president of Shamrock Turf Nurseries, Inc., at Hanna, Ind., announced at a special breakfast meeting that

his sod harvester, the "Big J," will now be manufactured and marketed. On hand with Morrill to present movies of the unit in operation were Fred Hartman, Shamrock nursery manager at the Hanna Farm, and Ray Johnson, general products manager at Momence, Ill., where the harvester will be built.

The Morrill unit picks up and rolls 1500 yards of sod per hour and operates with pallets. It is hydraulically operated and will handle all popular lengths and widths of sod, according to Morrill.

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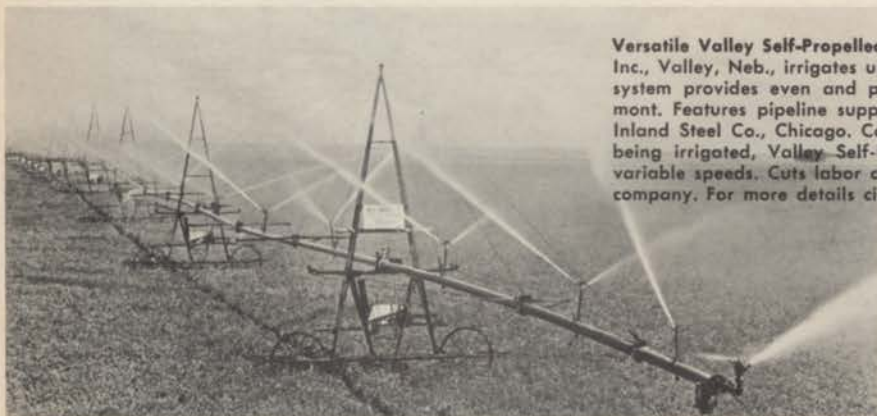
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For More Details Circle (115) on Reply Card

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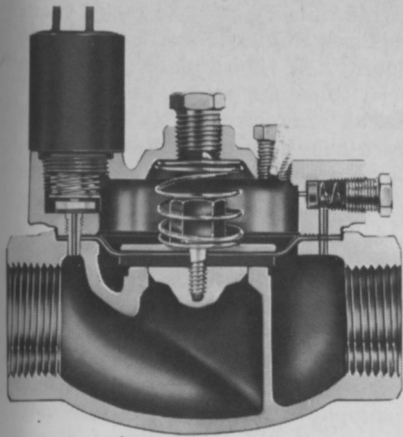


Versatile Valley Self-Propelled Irrigation system produced by Valmont Industries, Inc., Valley, Neb., irrigates up to 180 acres. In constant motion while operating, system provides even and precise coverage without wasting water, says Valmont. Features pipeline supported by mobile towers of steel sheet supplied by Inland Steel Co., Chicago. Connected to main feed-water line in center of area being irrigated, Valley Self-Propelled system revolves around central point at variable speeds. Cuts labor costs, requires only set-up plus routine upkeep, says company. For more details circle (704) on reply card.

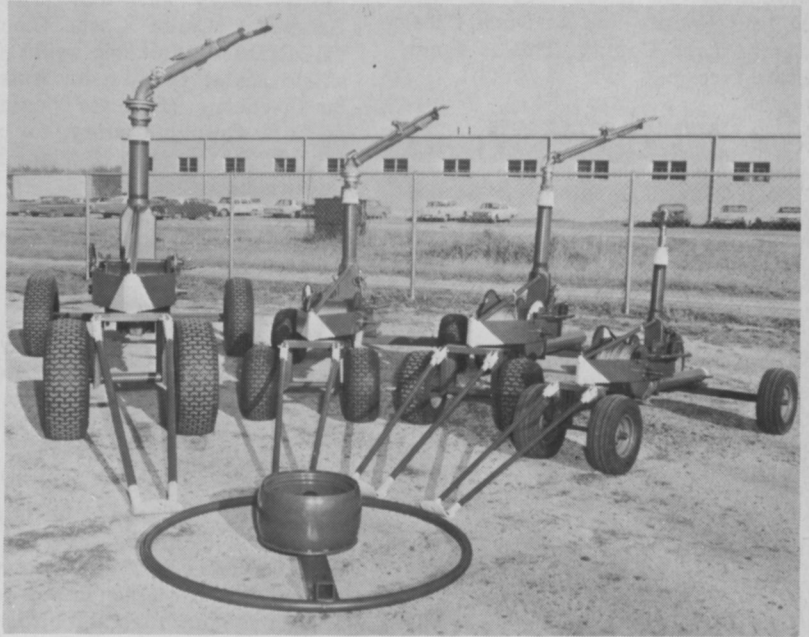
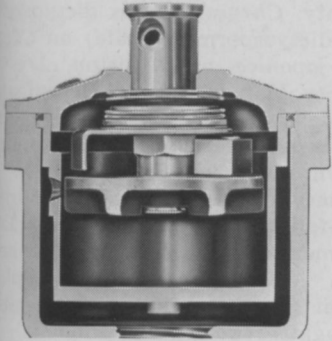
Buckner Sprinkler Company, Fresno, Calif., reports its new pressure regulator control valve provides completely automatic regulation to maintain uniform water discharge pressure and flow in irrigation systems. Valves can be set at desired operating pressures up to 150 PSI; they provide high degree of uniformity from all sprinklers on a given system regardless of location, according to Buckner general sales manager, Howard F. Smiley. For more details circle (705) on reply card.



ITT Marlow, Fluid Handling Division, International Telephone and Telegraph Corp., Midland Park, N. J., offers its new high-capacity, self-priming centrifugal pump. Designated 2H19, the unit has 2" suction and discharge connections and can achieve flows as high as 9600 g.p.h. with total head capacity exceeding 100 feet, says ITT Marlow. Unit also features rapid priming and can operate at suction lifts up to 25 feet, according to the company. Powered by 3-HP, air-cooled engine, 2H19 weighs only 60 lbs., can be carried by one man. Priced under \$150. For more details circle (706) on reply card.

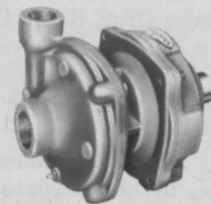
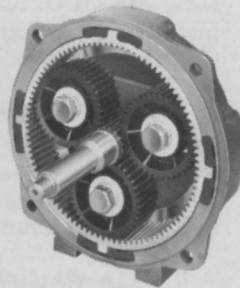


Weather-matic Sprinkler Division, Telsco Industries, Dallas, Tex., has introduced a new low-amperage solenoid for their No. 8024 Electro-Val plus a new series of pop-up rotary sprinklers. The company reports its water-proof solenoid (top, left) has spring-loaded actuator to permit mounting of valve in any position. Series 040 pop-up sprinkler (bottom, left) is designed for medium turf areas at lower operating pressures. In full, half or quarter circle, the unit operates at pressures from 25 to 50 PSI, has nozzle range of 56 to 65 feet. Body is high-impact Cycloy plastic with brass cover; internal parts are removable from above ground for easy cleaning and adjustment, says Weather-matic. For more details circle (707) on reply card.



General Irrigation Co., Carthage, Mo., has added 3 new models to its E-Z RAIN line: Mark-2 irrigates 40 acres, operating at 100-200 GPM; Mark-3 discharges 200-400 GPM, irrigating 80 acres; Mark-6, newest and largest E-Z RAIN unit, uses 800-1600 GPM and irrigates 320 acres, according to General Irrigation. The original Mark-4 unit now uses 400-800 GPM, irrigating up to 160 acres. E-Z RAIN models, all featuring exclusive water turbine drive with by-pass variable speed control, offer advantages such as low maintenance costs and ability to irrigate narrow or odd-shaped areas, says the company. For more details circle (708) on reply card.

Rain-Spray, Los Angeles, is offering a sprinkler kit that allows the "Do-It-Yourself" to easily install his own underground system by "adding on" as many units as needed, says the company. Its RSK-300 Add-On Kit provides a system that covers up to 800 sq. ft., able to water lawns of all shapes. Kits include all necessary parts and fittings, 100 feet of sprinkler pipe and installation manual. Rain Spray says its system connects directly to any 3/4" or 1/2" hose outlet, requiring no special tools. For more details circle (710) on reply card.



Hypro, Inc., St. Paul, Minn., recently introduced its new tractor-driven centrifugal pump with compact, planetary gear drive. Designated Series 9000, the pump's gear drive increases pump speed 7 times for standard PTO shafts, delivers up to 114 GPM with pressures up to 60 lbs. per sq. inch, according to Hypro. Used enclosed gear drive instead of belts or chain drive offers added safety and more trouble-free operation, Hypro contends. During tests, the 6-HP, cast-iron pump withstood more than 15,000 abrupt stops and starts without evidence of wear, Hypro attests. For more details circle (709) on reply card.

Insect Report

WTT's compilation of insect problems occurring in turfgrasses, trees, and ornamentals throughout the country.

TREE INSECTS

AN APHID

(*Capitophorus patonkus*)

UTAH: Collected (probably on *Achillea*) at Cedar Breaks National Monument at 10,000 feet elevation in Iron County and at Duck Creek Camp, Kane County. This is a new State record.

BERMUDAGRASS MITE

(*Aceria neocynodonis*)

CALIFORNIA: Medium on Bermudagrass at Anderson, Shasta County. This is a new county record.

AN ARMORED SCALE

(*Diaspis dignus*)

FLORIDA: Taken on button-snakeroot (*Eryngium yuccifolium*) at Samsula, Volusia County, for a new Florida Department of Plant Industry host record.

TURF INSECTS

AN APHID

(*Lachnus salignus*)

ARIZONA: Heavy on willows at Tempe area, Maricopa County.

A BARK APHID

(*Pineus sp.*)

CALIFORNIA: Infesting Coulter pines in a plantation and pine reproduction in Fay Creek Plantation and adjacent area of Cleveland National Forest. About 60 trees in 2-acre area show damage; infestation increasing.

A CONIFER APHID

(*Cinara occidentalis*)

CALIFORNIA: Medium on fir nursery stock at Santa Cruz, Santa Cruz County.

CALIFORNIA FIVE-SPINED IPS

(*Ips confusus*)

CALIFORNIA: About 30 ponderosa and sugar pines in 10-acre area infested at Sweetwater Point, Mariposa County. Thinning operations responsible. Infestation increasing.

A MARGARODID SCALE

(*Neosteingelia texana*)

FLORIDA: Taken on hickory (*Carya sp.*) near Santa Fe River, Columbia

County, for a new Florida Department of Plant Industry host record.

PINE NEEDLE SCALE

(*Phenacapis pinifoliae*)

CALIFORNIA: Widespread on ponderosa pines in Tennant Road of Goosenest Ranger District, Klamath National Forest. Medium on twigs on spruce trees locally in game reserve at Tulalake, Suskiyou County. Prevalent past several months in many areas in forests.

SOFT SCALES

CALIFORNIA: *Mycetococcus ehrhorni* heavy on live oaks at Lafayette, Contra Costa County. FLORIDA: *Pulvinaria psidii* (green shield scale) taken on Australian brush-cherry (*Eugenia paniculata*) at Taft, Orange County, for a new Florida Department of Plant Industry host record.

INSECTS OF ORNAMENTALS

A BARK BEETLE

(*Phloeosinus cupressi*)

CALIFORNIA: Adults heavy on Monterey cypress nursery stock at Danville, Contra Costa County.

DOGWOOD BORER

(*Thamnospechia scitula*)

ALABAMA: Larval feeding increased in cambium layer of many dogwood trees past 10-15 warm days statewide. Increased larval feeding and movement attracted birds. Much fresh "pecking" injury to bark. Many older infested spots on older trees have 2-15 larvae.

A MEALYBUG

(*Spilococcus pressus*)

CALIFORNIA: Heavy on oleander at Brawley, Imperial County.

SPIDER MITES

(*Tetranychus spp.*)

NEW MEXICO: Moderate on house plants in several greenhouses at Las Cruces area, Dona Ana County.

NANTUCKET PINE TIP MOTH

(*Rhyacionia frustrana*)

OKLAHOMA: Live pupae in 75 percent of young pine tips on roadsides in McCurtain County.

A WALSHIID MOTH

(*Periploca nigra*)

CALIFORNIA: Adults and larvae medium to heavy on juniper nursery stock at San Luis Obispo County.

ARMORED SCALES

CALIFORNIA: *Diaspis boisduvalii* medium week ending January 10 on

orchid nursery stock in orchid house at Paso Robles, San Luis Obispo County. *D. boisduvalii*, *Aspidiotus nerii* (oleander scale), and *Pseudococcus microcirculus* (a mealybug) were heavy on cymbidium and cattleya orchards in orchid house at Menlo Park, San Mateo County. FLORIDA: All stages of *Fiorinia theae* (tea scale) severe on all 100 lusterleaf holly plants in nursery at Glen Saint Mary, Baker County. The following were collected in 1968 for new Florida Department of Plant Industry host records. *Abgrallaspis cyanophylli* on asparagus-fern (*Asparagus plumosus*) at Stuart, Martin County. *Chrysomphalus dictyospermi* (dictyospermum scale) on *Cleyera japonica* at Williston, Levy County. Mature scales of *Ceroplastes floridensis* (Florida wax scale), some with eggs, severe on 1,320 container-grown plants of Burford holly in Nursery in Hillsborough County. The following are new Florida Department of Plant Industry host records. All stages of *Lepidosaphes beckii* (purple scale) on variegated elaeagnus (*Elaeagnus pungens*) at Raiford, Union County. This is a new county record. *Aspidiotus juglansregiae* (walnut scale) adults on stems of honeysuckle (*Lonicera heckrottii*) in nursery at Gainesville, Alachua County.

BROWN SOFT SCALE

(*Coccus hesperidum*)

CALIFORNIA: Heavy on orchids in orchid house at Larkspur, Marin County.

Compiled from information furnished by the U. S. Department of Agriculture, university staffs, and WTT readers. Turf and tree specialists are urged to send reports of insect problems noted in their areas to: Insect Reports, WEEDS TREES AND TURF, 9800 Detroit Ave., Cleveland, Ohio 44102.

Whitehead Tells Dow Story

Don Whitehead, twice a Pulitzer Prize winner for reporting, has written a history of the Dow Chemical Company entitled "The Dow Story." Using a blend of anecdote and straight reporting, Whitehead traces the growth of the Midland-based (Michigan) company from its founding in 1897 to its present status as one of the world's leading chemical enterprises.

Published by McGraw-Hill Book Company, "The Dow Story" is priced at \$5.95.

Classifieds

When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

Rates: "Position Wanted" 10c per word, minimum \$3.00. All other classifications 20c per word, minimum \$4.00. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment. Bold-face rule box: \$25.00 per column inch, two inch minimum.

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This nationally known tree service company, which operates from Maine to Florida, offers outstanding career opportunities in sales and management for men experienced in the tree field or college graduates in forestry, horticulture or agriculture. Ability to work with public and personnel is important. Attractive salary plus commission, protected territory, growth potential excellent. Intensive training course and benefits. Send resume of education or experience to William Eckhardt, Bartlett Tree Experts, 2770 Summer Street, Stamford, Conn. 06905.



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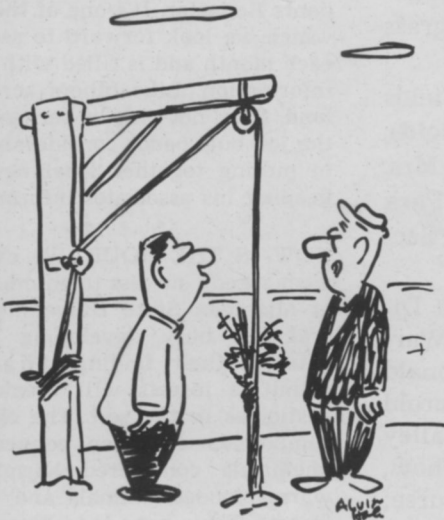
HIGHWAY WEED-BRUSH sprayer, Hardie 1000-gallon R. S., 25-gallon min. pumps, custom built, spray boom right or left hand. One man operated, all controls inside cab. Can spray 8-10 miles per hour. Complete, mounted on International 1967 2-speed, special truck. Terms: Cash. Ray E. Goodell, RD 1, Conklin, New York 13748.

REINCO HYDRO Seeder, Model H SJ10WX, 60 HP Wisc. Engine. Unit has been used to apply 4 tankfuls. Some attachments never used. Change in plans make this surplus

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FOR SALE: Going business, personal property, sod acreage and peppermint acreage with long term land lease. Will consider share cropping. Box 39, Weeds, Trees & Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.



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USED EQUIPMENT

equipment. Bargain, \$3,000. Gulf Reston, Inc., Executive Office, Reston, Va. 22070. Phone 471-4307, Ext. 50.

LAWN SPIKER, 7 ft., 3 sections, \$120.00; Seaman Tilter, 6 ft., Waukeska, 6 cylinder motor, trailer mounted, \$425.00; Huber roller, 8-ton, 3-wheel, \$450.00. Gettemeyer Sod Farm, R.R.2, St. Peters, Mo. 63376. Phone 314 278-3388.

SPRAYERS, chippers, log splitters and other equipment at large savings. Let us know your needs.

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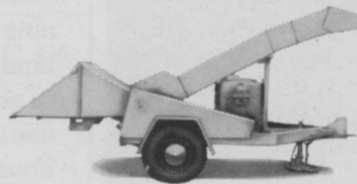
USED EQUIPMENT

Equipment Sales Company, 4744 Sunrise Highway, Massapequa Park, N. Y. 11762.

FOR SALE: 1968 Dunbar hydraulic sod unloader, Model C-101 360° Swing, used 3 times. Huron Sod Farms, Inc., 30877 Pennsylvania Rd., Romulus, Michigan 48174.

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You can always survey your lawns with pride if you grow 0217® Fylking Kentucky bluegrass. Fylking shoots up a spring abundance of new green leaves, never produces wiry stems and ugly seedheads. This sensation of the sod and seed industry is low-growing, always mows smooth and thrives on close cutting. Fylking produces thicker, greener turf which is more disease, weed and wear-resistant than any variety yet (proven by 10 years of international testing — rated best obtainable by turf authorities).

Turf-forming qualities make it possible to lift sod in 110 days.

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Firm Offers Harvesters For Aquatic Plant Control

Aquatic Controls Corporation has developed a line of high-speed, self-contained harvesting machines to alleviate aquatic vegetation problems without damaging ecology of the waterway, it reports.

Excessive aquatic vegetation is caused by excessive fertility from lawns, gardens, farms and even processed sewage, says the company. This situation can be remedied by removing the unwanted plants, prior to their full maturity, according to Aquatic Controls. Harvested plants can then be converted into organic fertilizer, the company believes.

For more details write the company (Waukesha, Wis. 53186) for a copy of "Water Pollution, Cause & Control," an available report prepared by Howard W. Stern, president of Aquatic Controls.

Illinois Group Re-Elects Bob Johnson As President

Robert G. Johnson of the Illinois Lawn Equipment, Inc., Orlando Park, was recently elected to serve a second term as president of the Illinois Turfgrass Foundation, Inc.

Oscar Miles of Olympia Fields Country Club, Olympia Fields, was elected vice president; Mrs. Dorothy Carey of Orlando Park was re-appointed Executive Secretary-Treasurer.

The association's Board of Directors are: Ben Warren, Warren's Turf Nurseries; Ronald Damgaard, Landscaping; Harold Frederickson, Edgewood Valley Country Club; Tom Guttschow, Lincoln Greens Golf Course; Walter Fuchs, The Upjohn Company; Leon Short, Leon Short & Sons, Inc.; and Vernon Verstraete, Wewanee Park District.

Trimmings

VACATION OR MEETING? During the past 3 months we've covered a variety of meetings. Locations of most of these are exemplary — if the purpose is to meet at a playground. Three have been in Florida and two in Las Vegas. Expenses, particularly in Florida, are ridiculous during the winter months. With the company footing the bill, we can't complain. But it may be to the point that costs are adversely affecting attendance.

* * *

HOW MUCH CAN GOVERNMENT RESTRICT INDUSTRY? We find the recent remarks of FMC Corporation's Edward K. Hertel very revealing. He points out that government agency requirements on new product development are stiffening. Pesticide developers, he said, are being required to probe ever deeper into toxicology regarding proposed new pesticides. This can adversely affect development in 2 ways: (1) only companies with big research budgets can survive the tremendous expense in putting a new compound on the market; and (2) new requirements may preclude development of specialty products for limited acreage crops.

* * *

UNSUNG HEROES. We have a sympathetic interest in those stalwart association secretaries who faithfully produce newsletters for the membership. Had a nice visit with one who is typical recently at Miami Beach. He is Stan Metsker, course superintendent at the Boulder CC, Boulder, Colo., and he produces a timely sheet called the Rocky Mountain Golf Course Superintendents Reporter. It's one of the many which we look forward to receiving each month and is filled with timely information. Like others across the land, Stan not only is serious about the job but spends considerable time in pulling together local news and keeping his associates informed.

* * *

NOW IS THE HOUR. We can only wish speedy success to entomologists at Michigan State University. Several are busy developing further data on their findings that tiny, primitive insects will break down pesticides in the soil. The chemical compounds are then converted to chemicals considered harmless to warm-blooded animals and helpful insects. Their hope is to literally put a built-in pesticide "clean-up" system into the soil. Working on the process are: Dr. James Butcher, Erik Kirknel, and Dr. Matthew Zabik.

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Two men can plug or sprig three acres a day of Zoysia, Bermuda, Centipede, or St. Augustine grass. The self-propelled Lawn-O-Matic automatically digs three furrows, cuts 1½" x 2" plugs from 1' x 2' sod blocks, inserts them in the furrow, and then closes the soil around the planted grass with the heavy duty roller.

The three-row Lawn-O-Matic places the grass plugs or springs 8" apart in rows 7½" apart.

Planting grass at the rate of 300 square feet per minute, five average lawns, front and back, can be planted in one day with two men.



Your first ten days of full operation will pay for the Lawn-O-Matic; labor-saving is over 90%.

The Lawn-O-Matic creates profits for you whether you offer a lawn plugged or sprigged, or whether you rent the Lawn-O-Matic to "Do-it-yourselfers".

The versatile Lawn-O-Matic serves as a sod carrier and easily moves five square yards.

The U.S. Patented Lawn-O-Matic is available in 1, 2, or 3 row machines and is priced at only \$795.00. This machine was developed by Alabama's largest grower of sod.

Write Box 752, Auburn, Alabama for more information.

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