



Dale, left, and Carl Habenicht host the field demonstrations.

"will be to analyze the results, pointing out apparent trouble areas, and focusing, if possible, on improvement of profitability."

Evan Lemley, program coordinator of management services at Rutgers University, winds up the morning agenda with the topic: "Management—Speaking Objectively."

Afternoon sessions, with William Huber, president of Mid-America Sod Growers Association, presiding, shape up like this:

1:30—Promoting and Merchandising Your Product, Miss Margaret Herbst, director of information, Merion Bluegrass Association, New York City.

2:00—New Developments in Turfgrass Varieties, Dr. Robert Miller, associate professor in turf, Ohio State University.

2:45—Production of High Quality Seed, Doyle Jacklin, president of Jacklin Seed Company, Dishman, Wash.

3:15—Salt Tolerance of Highway Turf, Dr. J. D. Butler, assistant professor in turf, University of Illinois.

4:00—Business meeting.

A cocktail hour, courtesy of Mid-America Sod Producers, beginning at 6:30, precedes the banquet session in Viking Hall. Dr. Fred Grau, Grasslyn, Inc., is banquet speaker, on the topic of "The Future of the Turfgrass Industry." Joseph McDermott, Loveland Lawns and president

of the Midwest Turfgrass Growers Association, is toastmaster.

Field demonstrations will be conducted at the H & E Sod Farm, just off Route 114, at Momence, Ill. Ac-

tivities begin at 9 a.m. and continue all day. A catered lunch will be served at noon.

A landing strip for light aircraft will be available at H & E Sod Farm. If you wish to use the strip, contact Dale Habenicht, H & E Sod Nursery, 4301 West Flossmoor Rd., Tinley Park, Ill. 60477, or phone AC 312 798-2210.

## Poa Annua Control Plans

A booklet has been published by Diamond Shamrock Chemicals detailing three programs by which Dacthal preemergence herbicide may be used in turf to control *Poa annua*.

Plan 1 is used when no reseeding is anticipated for an entire season, or where mature *Poa annua* survives the summer. The second plan is designed for use where mid-summer reseeding is planned. For serious *Poa annua* infestations, Plan 3 includes directions for a complete spring renovation program, plus instructions for a yearly preventive program to protect against reinfestation, and a section how to apply Dacthal herbicide. For copies, circle (719) on the reply card.

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SP70-4

## Chemical Control for Creeping Speedwell

By A. J. TURGEON\*  
and W. F. METTITT\*\*

Department of Crop and Soil Sciences  
Michigan State University

**C**REEPING SPEEDWELL (*Veronica filiformis* Sm.) is a many-stemmed creeping perennial that invades lawns growing under cool, moist conditions. It reproduces vegetatively by creeping stems, and its spread is enhanced by soils of high fertility. Its flowers are borne singly on pedicels and in mid-June give a heavily infested lawn the appearance of a bluish-white carpet. Its yellow-green leaves are small and hairy, and appear to completely crowd out turfgrasses in an infested lawn. Closer examination of the lawn reveals the coexistence of a substantial percentage of grass with the weed.

Creeping speedwell was reportedly introduced into Grand Rapids, Mich. (from England more than 40 years ago by a wealthy rock garden enthusiast. To date it has been identified throughout the northeastern United States and Washington.

A survey of the literature indicated that selective control of this



weed could be achieved with endothall or DCPA, at normal rates of application. Initial greenhouse tests on speedwell-infested turfgrass plugs indicated that conventional broad-leaved-weed herbicides were ineffective against this weed. The herbicide treatments include: 2,4-D (2 lb/A), silvex (1.5 lb/A), dicamba (1 lb/A) and picloram + 2,4-D (.5 and 1 lb/A, respectively). When endothall (3 lb/A) was applied to the plugs, complete kill of the weed resulted and the turf recovered after three weeks.

Field tests were initiated July 11, 1969, on a Grand Rapids estate lawn, with the following treatments: endothall (2 lb/A); endothall (2 lb/A) plus vertical mowing; and vertical mowing without herbicide treatment. Nearly complete control of speedwell resulted from the herbicide treatments, while vertical mowing did not give weed control nor significantly enhance the effectiveness of the herbicide.

On Aug. 20, 1969, additional treatments were applied using endothall at 1/2 lb. and 1 lb/A. This was dur-

Table 1. Evaluation of Treatments on Creeping Speedwell (*Veronica filiformis*) in a Kentucky Bluegrass Lawn.

Trmt. No.	Treatment	Rate lb/A	Date Applied	Weed Control
1	Endothall	2	July 11	95%
2	Endothall + vertical mowing	2	July 11	95%
3	Vertical mowing	--	July 11	0%
4	Endothall	1	Aug 20	95%
5	Endothall	1/2	Aug 20	70%
6	DCPA	15	Aug 20	0%
7	Endothall	1	Sept 22	95%
8	Endothall + oil	1	Sept 22	95%
9	Endothall	1/2	Sept 22	40%
10	Endothall + oil	1/2	Sept 22	95%
11	Endothall	1/4	Sept 22	20%
12	Endothall + oil	1/4	Sept 22	20%





ing a hot, dry period and the lawn was not receiving any artificial irrigation. The 1 lb application rate gave nearly complete weed control, while the ½ lb rate gave fair control averaging about 70%. DCPA was also applied at 15 lb/A. This produced no observable effects on either the weeds or the turf.

On Sept. 22, 1969, endothall was applied at ¼, ½ and 1 lb/A alone and in combination with (1 gal/A) non-phytotoxic oil. Both 1 lb/A rates and the ½ lb/A plus oil treatments gave nearly complete control. The ½ lb/A endothall treatment (without oil) gave only about 40% control and both ¼ lb/A treatments resulted



in poor weed control. The weather during this period was cool and soil moisture was high.

In all tests where the herbicide was effective, weed kill was rapid, resulting in an open turf highly susceptible to invasion by other weeds, including knotweed (*Polygonum aviculare*) and dandelion (*Taraxacum officinale*).

The results of these tests illustrate several factors which must be considered when attempting to control severe speedwell infestations:

1. Kill of speedwell with endothall is more effective during warm weather than under cool conditions. The desiccating effects of hot, dry

weather appear to enhance the contact activity of the herbicide.

2. Vertical mowing is a laborious cultural practice that does not significantly improve the control of this weed when performed in combination with endothall application.

3. The 2 lb/A and 1 lb/A rates of endothall give nearly complete weed control, while the ½ lb/A rate is not satisfactory unless 1 gal/A of non-phytotoxic oil is added to the herbicide solution.

4. Artificial irrigation of the turf several days after chemical treatment with endothall, greatly aids turf recovery.

5. The occurrence of knotweed and dandelions in areas left void by chemical treatment of speedwell illustrates the necessity for a follow-up program. This might include overseeding with desirable lawn grasses about two weeks after endothall treatment; an intensive management program of watering, fertilizing and mowing to encourage rapid spread of the existing turf; and subsequent treatment with appropriate herbicides to control new weeds that may appear.

\* Graduate Research Assistant, Department of Crop and Soil Sciences, M.S.U.  
\*\* Professor, Department of Crop and Soil Sciences, M.S.U., East Lansing, Mich.

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**A**MERICAN Association of Nurserymen is doing its thing for the 95th time, July 18-22. The pad is the San Francisco Hilton. The program looks like a smash.

The 86-booth trade show is filled to capacity, according to exhibit chairman Jim Meadows. The booths, he says, will display almost every kind of equipment, chemical, plant material, supplies, and printing on the market that are valuable to the wholesaler and retailer of nursery stock.

Although the trade show area has been filled, Meadows said a trading area is being made available to late-comers. The area is adjacent to the main exhibit area and will contain a limited number of card tables and chairs for company sales representatives.

A "trading table" sells for \$100 and will include the table draped in green, two chairs and a company sign.

An amendment to the bylaws will draw a lot of attention at two of the business sessions. The change would permit firms receiving less than half of their gross income from sale of nursery stock to become AAN members.

According to AAN President William Flemer, III, "A bylaw amendment proposal should involve the participation of all AAN members. Caucuses will be held Monday morning, July 20, from 9 a.m. to noon and members are urged to attend their regional caucuses. It is here that opinions may be expressed and regional decisions made on this important proposal."

The first general business session is 2:30 p.m. Monday in the Continental Ballroom. In addition to discussion of the proposed bylaw amendment, the annual President's Address will be delivered, staff slide and tape presentation to the Board

*In San Francisco, July 18-22*

## Membership Rule Change Tickler for AAN's 95th

of Governors highlighting the year's activities will be made, the proposed budget and treasurer's report will be given, and nomination of officers for the coming year will be heard.

The second business session will be held on Wednesday, July 22, at 2 p.m. in the Imperial Ballroom. At this meeting, votes will be taken on the bylaw amendments, officers will be elected, and approval of the fiscal budget will be made.

### Wholesale Nursery Program

William R. Callen of Associated Farmers of California, Inc., will speak on "Agriculture Labor Relations and the Grape Boycott." Callen will discuss the controversial developments to unionize California grape pickers and analyze the meaning of unionization to the nursery industry.

"Profits Through Applied Machinery Systems" will be discussed by Peter J. Clifford of Venture Systems, Inc., Fresno, Calif. Venture Systems is having a great impact on the growing business through its "systems approach" to nursery mechanization problems through an overall "production line" approach.

A slide presentation and discussion of the sophisticated European nursery production machinery will be presented by Otto Timm, Timm Enterprises, Ltd., Canada.

Following a two-hour lunch break, William W. Wood, Jr., of the University of California, will discuss "Big Business Looks at the Nursery Business" and analyze the grower's place in the coming decade of "conglomerates," "chain outlets," and "franchises."

Latest strides in horticultural research will be explored by Richard D. Lane, USDA Forest Service.

"New Plants for the Seventies" will be discussed by Don Shadow, Tennessee Valley Nursey, McMinnville, Tenn. He will introduce some new and unknown plant materials which may be factors in the nursery industry's inventory of the future.

To wrap up Wholesaler's Day, Tokuji Furuta of the University of California will present a "picture tour" of California Production Nurseries.

### Retail Nurserymen's Agenda

"How to Manage the Cost of Labor in a Retail Garden Center" will be discussed by Lawrence W. Bachman of Bachman's, Inc., Minneapolis, Minnesota.

"How to Use Opinion Surveys to Discover What Your Best Friends Won't Tell You" is an enlightening discussion on the value of knowing the garden center's customers, their attitudes and motivations for buying (or not buying) nursery products. Daniel S. Capper, Capper's Nursery, McLean, Va., is a leading retailer ably used the Horticultural Research Institute's Retail Nursery Customer Survey Kit.

A photo slide review and critiques of the 1970 Retail Advertising Award winning ads will be shown and discussed in "Guidelines for Effective Retail Advertising." As ads are shown on the screen, professional guidelines for producing "selling" ads will be discussed. The 1970 Retail Advertising Awards will be presented immediately following the slide preview.

Following a leisurely lunch break, the afternoon session will lead off with "Here's How to Run a Sales Meeting to Build Loyalty and Sales

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Arboretum, Inc., retail garden center division of Environmental Industries, Encino, Calif., has purchased Better Gardens, a 28-year-old, service-oriented garden store firm with outlets in San Marino and Arcadia. Don Stockard, left, general manager of Arboretum, Inc., welcomes Kerby Lesh into the EII family of companies. Lesh, former owner, continues with EII in a management capacity.

Enthusiasm," presented by Itsuo Uenaka, chairman of the AAN Garden Center Retail Committee, Cupertino Nursery, Cupertino, California. The basis for Uenaka's presentation will be the newly created "Sales Meeting Tapes" now available to AAN members.

To wrap up Retailer's Day, the National Association of Credit Management will conduct an information-packed 40-minute session on "How to Manage Credit to Build Sales and Increase Profits." Topics to be covered include reasons for using credit, how to make money on credit plans, and how credit stimulates impulse buying.

#### For the Family

Women attending the convention will be treated to a special Ladies Day Tuesday, July 21. They will tour the M. H. DeYoung Memorial Museum, a Japanese Tea Garden, the Strybing Arboretum, and other historical sites.

Youngsters, too, have a program outlined for them. Juniors have a get-acquainted party Sunday with dancing to today's popular tunes. On Monday, they will tour Marine World; Tuesday, Angel Island; and Wednesday, engage in a splash party in the hotel pool.

The annual landscape tour, sponsored by the National Landscape Association, will feature many of the outstanding landscape designs in the San Francisco Bay area. The tour

is Sunday, July 19. Special taxi tours will be conducted on the same route Monday and Tuesday mornings.

## DED Losses Drop 50% In Milwaukee County, Wis.

Dutch Elm Disease killed only half as many trees in 1969 in Milwaukee County, Wis., as it did in '68.

The decline is no assurance, however, that losses won't increase again in 1970, said county agri-business agent Stanley Rynearson. He attributed the decline to three factors: decreasing number of elms; thinning of thick stands, thereby reducing the possibility of transmitting the disease by root graft; and loss of most of the rural elms in the county, which could have reduced in-migration of elm beetles.

Control programs costs did not fall proportionately. Though tree deaths dropped from 34,323 to 17,245, money spent on control programs dipped from \$132,490 to \$128,344. Removal costs decreased \$34,000 to \$1,184,449.

DDT has not been used to control the elm bark beetle since 1968.

To be exact, Rynearson said that 237,346 elms remain in the county.

Municipalities planted 26,724 trees in 1969. Diversification of varieties planted continues to get emphasis, he said. Maples, accounting for 90% of the plantings in 1965, last year comprise only 55%.



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# Costs, Training, Chemicals

(Fun, Also) on 45th ISTC Agenda, Aug. 9-14

Chemical research and usage, business management, employee training, operating costs, shade tree evaluation, beautification techniques—these are subject areas for the 46th convention of the International Shade Tree Conference.

The week-long event, designed for business, education and pleasure is Aug. 9-14. The site is the Hotel Flagship-Rochester, Rochester, N.Y. Judging from past conventions, anywhere from 700 to 1,000 persons from several countries are expected.

"We especially want to emphasize that this convention is not limited to ISTC members; it's open to anyone," said E. C. Bundy, ISTC executive secretary. There is a nominal registration fee, he added.

General chairman of this year's convention is Frederick R. Micha, sales manager and consulting arbor-

ist for Monroe Tree Surgeons, Inc. Mrs. Micha is responsible for the ladies' program.

This year's theme is: "The World's Heritage—Trees."

Program organization will be similar to past conventions. Committee meetings, board sessions, caucuses and early registration take place on Saturday and Sunday. General sessions are all day Monday. Three separate but concurrent sessions run all day Tuesday for municipal, utility and commercial arborists.

Wednesday is the big day for tree industry equipment and products. Field demonstrations will be conducted all morning in Genesee Valley Park. However, more than 50 exhibit booths will be operating throughout the convention. The booths surround the main meeting

and banquet room. Exhibits open at 10 a.m. Sunday. A generous amount of time is scheduled for visiting the exhibits each day.

General sessions are again planned for Wednesday afternoon and Thursday. Post convention tours are planned for Friday and Saturday.

Gov. Nelson A. Rockefeller is scheduled to speak on environmental quality at the keynote luncheon, Wednesday, Aug. 12.

Opening speaker is Dr. H. M. Cathey, leader of ornamentals investigations, at USDA's Beltsville, Md., research center. He is followed by Dr. L. C. Chadwick, executive director emeritus of ISTC.

It is difficult to summarize or even give a brief idea of the wealth of information that will be presented. At any rate, here are the

## insect report



### TURF INSECTS

#### BLUEGRASS WEBWORM (*Cranbus teterrellus*)

INDIANA: First adult of season taken by blacklight trap at Lafayette, Tippecanoe County, on May 22.

### TREE INSECTS

#### WHITE-PINE APHID (*Cinara strobi*)

TENNESSEE: Very heavy on nursery and forest-grown white pine in east area.

#### ELM LEAF BEETLE (*Pyrrhalta luteola*)

ARIZONA: Infesting Chinese elms at Cherry, Yavapai County. UTAH: Damaged about 20 percent of elm leaf surface at Moab, Grand County. KANSAS: Larvae lightly damaged Siberian elm in Sedgwick County. Feeding by first-generation larvae heavy in Barton County.

#### SOUTHERN PINE BEETLE (*Dendroctonus frontalis*)

VIRGINIA: Damage localized in several counties. Low temperatures killed up to 90% of overwintering broods in January in central and southern Piedmont but not along Coastal Plain. Some problems on Eastern Shore along state line.

#### FOREST TENT CATERPILLAR (*Malacosoma disstria*)

WEST VIRGINIA: Larva collected in Greenbrier Coun-

ty, 4 larvae in Upshur County, and larva in Summers County for new county records.

#### SALT-MARSH CATERPILLAR (*Estigmene acrea*)

ALABAMA: Larvae very heavy, emerged from marsh areas near Prichard, Chickasaw, and Plateau in Mobile County. Devoured willows, weeds, and garden crops.

#### LINDEN LOOPER (*Erannis tiliaria*)

PENNSYLVANIA: Heavy defoliation will occur again in Cornwall area, Lebanon and Lancaster Counties, and near Pine Grove Furnace, southern Cumberland County. May increase substantially in other areas. Hatched in late April.

#### GEOMETRID MOTHS

MINNESOTA: *Alsophila pometaria* (fall cankerworm) and *Paleacrita vernata* (spring cankerworm) caused defoliation where populations heavy in Minneapolis and St. Paul area. More widespread than in 1969. Defoliation not severe except in several spots in St. Paul.

#### CONIFER SAWFLIES (*Neodiprion* spp.)

MISSOURI: *N. sertifer* (European pine sawfly) moderate to heavy on Scotch pine in Adair County. TENNESSEE: Probably *N. taedae linearis* caused major outbreak in central and west areas. Damage moderate to very heavy. Almost complete defoliation in some areas. Infestations more general and damage heavier than in 1969. Probably *N. pratti pratti* extensively damaged pines at Highland Rim. VIRGINIA: *N. pratti pratti* larval damage medium in some areas of Essex County.

#### BLACK-HEADED SAWFLY (*Tethida cordigera*)

MISSOURI: Heavy in nursery in Texas County; acre of green ash completely defoliated.



subject titles as they have been announced so far:

**MONDAY, Aug. 10**—Experimental work with polyurethane filler for tree cavities; systemic fungicides for controlling vascular diseases of shade trees; the beneficial relationship between tree roots and mycorrhizal fungi; pictorial review of shade tree evaluation; along the Woodland Trail; and green thumb tips for home gardeners.

**TUESDAY, Aug. 11, Commercial Arborists** — Davey Tree Company training methods; Bartlett Tree Company training methods; standards and practices of arboriculture in the British Isles; legislation affecting arborists' business; to bid or not to bid on landscaping; and chemical control of water sprouts on landscape trees.

**TUESDAY, Aug. 11, Municipal Arborists**—Waste wood disposal, incineration vs. utilization; highway beautification; downtown tree planting; beautification of parks; urban forestry as it applies to the municipal arborist; and urban forestry in Canada.

**TUESDAY, Aug. 11, Utility Arborists**—Right-of-way utilization by wildlife; future of herbicides; utilization of knapsack mistblower for chemical brush control; picloram basally applied for brush control on utility rights-of-way; the Microfoil boom, a three-year progress report; charting the course for the 70s; cost-sharing of trees involving overhead lines; arboricultural training in a public utility; and growth inhibitor developments.

**WEDNESDAY (afternoon), Aug. 12**—Street tree evaluation research; investigations on healing of tree wounds; outlook for progress in pesticide research; and an in-depth study of tree trimming.

**THURSDAY, Aug. 13** — Urbana forestry, interface between man and environment; growth factors in trunk development of young trees; symptom circus; Connecticut's environmental policy; and Dutch Elm Disease vector research at the Delaware research laboratory.

The annual business session, with Richard E. Abbott, ISTC president, presiding, will be conducted Thursday morning from 11 until noon. The annual banquet, with the introduction of international officers, awards and entertainment, is Thursday evening beginning at 7:30.

A number of side trips and tours are planned during and after the convention. Two concurrent tours are scheduled Tuesday, beginning at 3 p.m. One is to visit Monroe Tree Surgeons, Inc.; the other is to High-



California Park and Recreation Society has presented its Citation Award to Dr. Richard W. Harris (second from left) of the Environmental Horticulture Department at the University of California, Davis. Pictured are, from the left, Palmer Slack, second vice-president of the organization; Harris; G. P. Robinson, park section past president; and Jack S. Duke, regional representative.

land Park. At 8 p.m., a water ballet will be performed by the Perkins Swim Club and East Ridge High School.

On Friday, a bus tour will be available to the Canadian Niagara Falls. Saturday's tour is by private cars of Monroe County Parks.

## Plant Hormone Boosts Tree Seedling Growth

Wisconsin researchers have succeeded in boosting the growth of certain tree seedlings with the use of a plant hormone known as gibberellic acid.

O. J. Attoe and F. L. Rasson, University of Wisconsin soil scientists, worked on cottonwood, silver maple and white ash, and found that the addition of up to 23 parts per million gibberellic acid in the nutrient solution under greenhouse conditions caused a considerable growth increase. This amount, however, has some side effects. It reduced the average weight of the leaves and roots of the cottonwood plants.

Applying two perforated polyethylene packets—about one-third ounce each—of 20-10-20 fertilizer with 0.1 and 0.5% gibberellic acid increased both height and weight of cottonwood plants in Kellner loamy sand in pots. Application of only one packet did not show an increase.

On Lapeer fine sandy loam soil in the field, application of 2-ounce packets of fertilizer with gibberellic acid did not show a significant increase in height and weight of cottonwood and silver maple.

The fertilizer packets have been developed to give a slow release of plant foods in the soil. Slow release of gibberellic acid is desirable because the hormone is destroyed rapidly by soil organisms.

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## RAPID-GRO

For More Details Circle (119) on Reply Card

# At Myers' 100-Mark, Spraying 'Looks Exciting'

"An area that has been very exciting is the power sprayer business," William J. Barnes, vice-president, sales, F. E. Myers & Bro. Co., Ashland, Ohio, told his listeners.

"The advent of new materials is going to cause some changes in the way of doing things. We see a trend of acceptance and use on good, small equipment. There will be less persistent materials, and we must find new and better ways to apply them."

Barnes' statements and predictions are weighed with the significance of the occasion at which he spoke.

"The F. E. Myers & Bro. Co. of Ashland, Ohio, is 100 years old in 1970."

This direct, no-fanfare announcement was among material handed to business press editors at a conference June 1. The editors met in a spanking new training center, an engineering marvel itself, across the street from a spanking new 200,000 sq. ft. factory. The buildings are two of five steps to move the company to this 140-acre tract of land from its downtown location where it has been since 1870. The oldest building still standing dates from 1884.

The emphasis on newness and of product innovation at this occasion fashioned the impression that the

William J. Barnes, left, vice-president, sales, and Milton G. Moses, president, display a commemorative coin replica calling attention to the centennial year of F. E. Myers & Bro. Company, Ashland, Ohio. Coins and wall plaques are being distributed to draw attention to the milestone.



centennial had slipped up on Myers catching it looking-ahead.

Material distributed carried some enlargement on what Myers prognosticators see in the power sprayer industry.

An article, "A Look into the 70s," in Myers' publication, *Waterway*, forecasts more effective techniques, for applying more chemicals more efficiently while using less water.

With concentrations of 33 times already a reality, the result, stated the article, will be "smaller, more compact equipment that will be easier to operate and could eventually become self-propelled. It could greatly influence the use of more right-of-way sprayers for automating roadside beautification and maintenance.

"Electrostatics' are on the way, too. This application technique consists of electrically charged spray

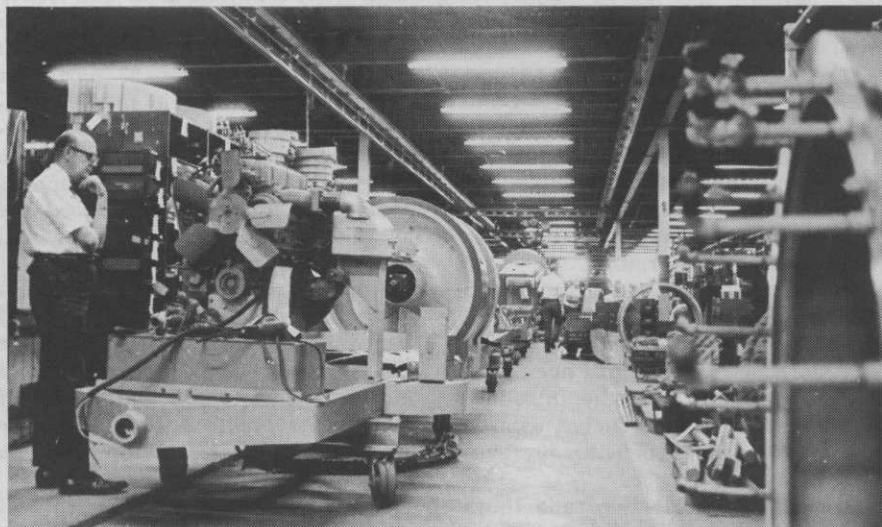
particles with a potential higher than that of the tree or object being sprayed. Thus, the particles will be attracted to all parts of the tree, even those surfaces opposite the spray source.

"In addition, new devices are in development to improve the placement of chemicals and controlling drift with heavy sticky spray droplets or globules in the form of foam.

"Nutritional sprays are also coming into use which could expand the business potential of today's sprayer dealer many times over."

Editors were given a history and orientation of present activities from top Myers officials.

"For American companies, the 100th anniversary is still a relatively rare occasion," said Milton G. Moses, president. "We have prospered because we have been able to offer a better product. And we



No, Myers doesn't make tubas. The picture at left is in the fiberglass section of the power sprayer factory. The picture above is the sprayer assembly line. These areas represent only a fraction of the 200,000 sq. ft. new factory that business press editors toured June 1. In addition to sprayers, the factory turns out pumps, water systems and hydraulic cleaners. Orders come from all parts of the world.





Business editors watch the hook-up of the new Myers tractor-mounted "Mitey-Mist" PTO air sprayer. It's designed for orchards, high density plantings, vineyards, turf, and field crops. Both dilute and concentrate sprays can be handled in either liquid or wettable powder form.

Myers' progress. The company, in addition to selling in every state, "services 50 countries monthly and 85 yearly," reported Bob Casciani, director of the international department. "At one time or another, we've served every country in the world."

In addition to its century of pump innovating and production of power sprayers, since 1890, Myers other product lines are water conditioning, water systems and hydraulic cleaners.

"We're looking forward to a bright future; we don't see a 'dog' in the bunch," said Barnes. "We've doubled sales in the past 10 years. We had better double sales in the next 10—or there will be someone else up here saying hello."

still do."

Though the latest of eight Myers trademarks has dropped it, a Jack-and-Jill drawing of the first "better product" is still used. The drawing shows Jill knocking off Jack's hat with a continuous stream of water. The symbolism is tied to the double-acting pump that P. A. Myers (brother of F. E.) invented that

revolutionized the pump industry.

P. A. Myers' pump delivered water in a solid steady stream, whereas previous pumps delivered in spurts. This invention brought the first of more than 1,000 Myers patents. More than 100 are still in force, 84 are active, and 10 more are pending.

The continuous stream of that first patent is symbolic also of

## industry people on the move



**Thomas C. Edgren** has been named manager of a newly established agronomic marketing department within Conwed Corporation, St. Paul, Minn. Sales specialists are John W. Keener, Chicago region; William K. Lorfald, Southern region; Henry W. Vollendorf, Eastern region; and Walter A. Kowalski, Western region. These men will be actively involved in the market development of Conwed Hydro Mulch, Turf Establishment Blanket, and Erosion Control Netting.

**David Lyons** of Maidenhead, England, has been named department manager of an expanded commercial sales department for Gustin Garden's, Inc., Gaithersburg, Md. Lyons had been divisional head of the northern areas of England, Scotland and Ireland for the William Wood & Son Ltd., landscape contractors of Slough, England. Lyons will specialize in landscape advisory service and sales to governmental and private business interested in the execution of complete landscape installations. The service is said to be the first such offering to commercial clientele undertaken in the Washington area.

**Dr. Harold Davidson**, associate professor of horticulture at Michigan State University, has received a special citation for publication excellence. The award was given by Keep Michigan Beautiful, Inc., for Davidson's booklet, "Your Community Can Be Beautiful." The publication was edited by Donald E. Gregg, MSU extension publications editor, and designed by Barbara Brown, staff artist for the University Editor's office.

**Leonard S. Mailloux** has been named national representative for American Bio-Turf, a new soil treatment product from the Farm Builders division of American Bioculture, Inc. Mailloux has been associated with golfing management for many years, most recently as grounds manager at Nassau Country Club, Glen Cove, N. Y. American Bio-Turf is a soil treatment using biochemical solution which stimulates microbial activity and works for biological control of the soil environment. Son, Ltd., landscape contractors of Slough, England.

**Dr. Bryson L. James** has joined the horticulture department staff of Callaway Gardens, Pine Mountain, Ga. Dr. James had been with Hercules, Inc., most recently as supervisor of the agricultural chemicals department, international department. His work took him to more than 27 other countries. Active in numerous trade associations, Dr. James has been for the past several years chairman of the education and promotion committee of the Southern Nurserymen's Association. Last August, he was the recipient of the Slater Wight Memorial Award, the South's most distinguished award in the nursery industry. He also has received SNA's Award of Merit.

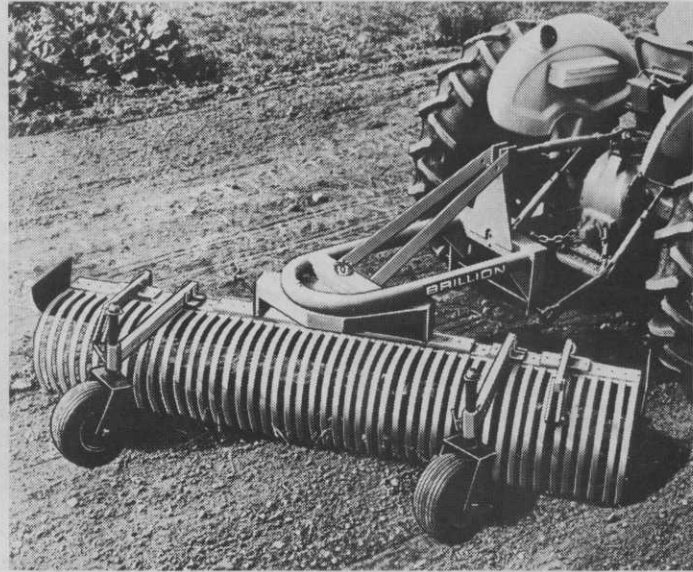
**Milton Waldinger** heads up a new line of products now being offered by Valley Crest Tree Co., a division of Environmental Industries, Inc., Van Nuys, Calif. The product line is redwood specialties, such as redwood rounds, headerboard, tree stakes and ties.

**Edward A. Hunnicutt** has assumed the newly created post of manager, special projects, for Toro Manufacturing Corp., Minneapolis. Hunnicutt joined Toro a year ago as marketing representative for turf products, then was in charge of government sales before his promotion.



**FIVE-GANG RIDING MOWER, Jacobsen Mfg. Co., Racine, Wis.**

A new self-contained five-gang riding reel mower designed for mowing commercial turf areas features rugged economy. The 18 hp Jacobsen Model F 133 cuts an 11-ft. swath and features height adjustment without tools. Outfront cutting leaves no wheel streaks. It has hydrostatic, foot-controlled variable mowing speeds and cutting frequencies. The unit is ideal for mowing parks, schools, institutions, and golf courses, as well as semi-rough areas. For more details, circle (701) on the reply card.



**TERRA-SCRAPER LANDSCAPE TOOL, Brillion Iron Works, Inc., Brillion, Wis.**

Landscape rake works soil, grades, levels and finishes. Rugged steel frame and teeth can spread stone, gravel and top soil. Optional gauge wheels with 360-degree caster, can be mounted in three positions for regulating working depth and easier maneuverability. They can be mounted in the rear and away to permit backing up; mounted close; or in front of rake to eliminate tire marks. For more details, circle (702) on the reply card.



**HYDRAULIC IMPACT WRENCH, Ackley Mfg. Co., Clackamas, Ore.**

This wrench delivers enough power and impact to handle 1½- and 2-inch bolt sizes at 1,000 impacts per minute and delivering 4,000 to 6,000 foot-pounds of torque. Has 1½" square drive, is reversible, and has full range speed control. Total weight of wrench is 80 pounds, believed to be the lightest in the industry for a wrench of this size and capability. The Ackley 23H operates on 12 to 14 gpm at 1,300 to 2,000 psi. For more details, circle (704) on the reply card.

**Showers of Diamonds**  
FOUNTAINS BY RAIN JET

APPLY DESCRIBED AS THE FIRST ENTIRELY NEW CONCEPT IN OVER 2000 YEARS OF FORMING WATER INTO SCULPTURED SHAPES. ONLY THE RAIN JET PATENTED ROTATING PRINCIPLE CAN PRODUCE THE MYRIAD DROPLETS, EACH DROPLET A REFLECTING PRISM, WHICH CREATES THE BREATHTAKING BEAUTY OF THE RAIN JET FOUNTAIN.

WHETHER YOUR FOUNTAIN WILL BE A DRAMATIC FOCAL POINT OR A DELIGHTFUL ACCENT, ITS SCINTILLATING PRESENCE WILL ADD TO ANY SETTING A NEW LIVING DIMENSION OF MOTION, COLOR AND SOUND IN ITS MOST REFINED, ELEGANT AND ENJOYABLE FORM.

YOUR EVERY FOUNTAIN NEED CAN BE SATISFIED FROM OUR LARGE ASSORTMENT OF FOUNTAIN PATTERNS AND INFINITE DESIGN POSSIBILITIES.

*Bursting Stars*      *Dancing Jewels*      *Crystal Cone*

**FOUNTAINS BY RAIN JET, Rainjet Corporation, Burbank, Calif.**

This four-page, full-color summarized catalog describes patented fountains by Rain Jet. It's free. The catalog features Rain Jet's line of complete fountain and bowl assemblies. The self-contained units are easy to install as they require no plumbing. The owner simply fills the bowl with water and makes the necessary electrical connections for underwater lights and pump. Also described is the line of massive aerated fountains for day and night use, of particular interest for parks. For details, circle (705) on reply card.



**COMMERCIAL MOWER, Bunton Co., Louisville, Ky.**

The new Bunton "G-Twenty" 20-inch cut is especially designed for commercial mowing. Will mow steeper grades, deeper ditches and rougher areas than other push-type rotary mowers. Balanced on two extra large 10"x2.50" tires. Front guard wheels prevent scalping. Quick height adjustment from 2 to 4½ inches. Unit shown is 3.5 hp with 1½ qt. extra oil base, 5 qt. fuel tank. Line includes 5 hp. model. Snorkel air cleaner mounted on handle. For more details, circle (706) on reply card.