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STH73-8

said that chemical control is the main line of defense today.

Hogan said that where water hyacinths are present, applicators usually use 2, 4-D. "But you can use Diquat around areas of valuable plantings," he said. "Diquat plus copper complex or ion at the rate of two gallons per surface acre (placed in the pater) will also control hydrilla."

Andy Price, Asgrow, Plant City, Fla. said that stream banks can be kept free of weeds by 1. determining the area to be treated, identifying the weed species and solving the problem with the available equipment and chemicals. He pointed out that one reason for the problem in the beginning is a lack of care.

Selective Vegetation Control: Rights-of-ways, parks and lawns, and brush trees and vines were topics discussed in this panel. O. M. Pourciau, Louisiana Department of Highways, outlined where weed control is needed and how to achieve results on rights-of-ways. Dean Bottlinger, Chemical and Turf Specialties, Inc., Dallas, reported on his work in controlling vegetation in parks and lawns. Michael W. King, Louisiana Power & Light discussed

vegetation control of brush and trees.

Total Vegetation Control: Dr. Allen F. Wiese, Bushland, Texas presided over this panel and also spoke on bareground weed control. He said that there are two types of soil sterilants, the fumigants with no soil residual and the soil active herbicides which provide long soil residual. The latter group generally upset the metabolism of the plant, leach to about six feet, and are mostly absorbed by roots. Wiese pointed out that one of the problems associated with soil active herbicides is the control of desirable vegetation and herbicide "shift."

Robert P. Carter, department of soil and crop sciences, Texas A&M showed delegates how growth regulators can be used. He discussed how to use Maintain CF 125 a product of U. S. Borax and Sustar, a new experimental growth regulator. For regulation of growth of turfgrass on lawns, he said it was important to get uniform coverage. He suggested that the applicator double the amount of water needed and cross spray (two directions) to achieve maximum coverage.

Delegates to this year's meeting were asked to state their desires as to meeting location, program and the possibility of establishing an Industrial Vegetation Management Association. It was decided that next year's meeting will again be held on the Texas A&M campus. Delegates felt that the program format should include additional training, Federal and state laws, roadside maintenance, and a greater amount of demonstrations of equipment and chemicals. There was keen interest in starting an association which would focus on the needs of industrial weed control applicators in Texas.

Training Schools For Mauget Products Announced

About 20 meetings to teach arborists, golf and park superintendents, and others the uses and techniques of Mauget Tree Injection products will be held in 1974, according to an announcement by Del Kennedy, vice president, J. J. Mauget Co., Burbank, Calif.

The meetings will be scheduled in metropolitan centers with easy access to airports and interstate highways. Last year about 2000 people attended the Mauget schools, representing every state.



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Green Industry Council Forms In Cleveland

Fourteen men, all spokesmen for various organizations within the Green Industry, met in Cleveland, Ohio in mid-November to form the nucleus of a newly organized Green Industry Council.

Purpose of the meeting was to discuss ways for better coordination of and communication between all Green Industry organizations in dealing with aspects of the current environmental situation. Particularly important to the discussion was use of environmental protection chemicals by commercial applicators as it relates to the Federal Environmental Pesticide Control Act (FEPCA).

Those attending included: John J. Spodnik, Golf Course Superintendents Association of America; F. Farrell Higbee, National Agricultural Aviation Association; Philip J. Spear, National Pest Control Association; Hyland R. Johns, International Shade Tree Conference; Leo D. Creed, Public Utility Arborists Association; F. Raymond Brush, American Association of Nurserymen; William P. Lanphear, National

Arborist Association; Edwin E. Irish, National Arborist Association; Albert W. Ray, Michigan Pesticide Applicators Association, Lewis F. Sefton, International Pesticide Applicators Association; Charles Beckwith, Ag. Organic Sales; James A. Sample, WEEDS TREES AND TURF; Arthur V. Edwards, WEEDS TREES AND TURF; Moderator for the meeting was William L. Owen, International Pesticide Applicators Association.

Each man reviewed for the group the activities in which his organization is engaged. In addition, Hyland Johns, who has been active in compiling and assembling information about FEPCA, reported on the current statis of pending legislation.

The group summarily agreed that there is a need for more effective lobbying at state and Federal levels. The voice of the Green Industry is generally not being taken into account in matters concerning pesticide use, noise control, air and water programs and other environmental concerns. Also mentioned was the Occupational Safety and Health Act (OSHA).

Additionally, it was brought out that communications between members needs to be improved within organizations as well as externally. Members of some organizations have had few educational sessions of Federal laws and little or no knowledge of state laws and their impact on the member. Federal legislation adopted and enforced by states could have far-reaching effects on members and their businesses.

Another fact presented was that no one organization was large enough to act as spokesman for the entire Green Industry at this time. Yet, it was pointed out that the tie that binds all organizations together is that nearly everyone uses environmental protection chemicals to one degree or another in his business. The concern about environmental legislation, and specifically pesticides, touches everyone who owns a sprayer.

Thus, the consensus was to form a Green Industry Council which would act as the umbrella organization for all Green Industry associations and organizations. Its function would be advisory, both to the organizations represented — and thus the members—and to those needs affected by current and proposed state and Federal legislation.

The pilot group of 14 proposed a number of ideas to meet the objective of a united Green Industry voice. Better alignment of committee duties within member organizations, contact persons who actively work with state legislative groups, pesticide user conferences at the state level, a formal lobbying organization in Washington D. C. which represents the Green Industry, a challenging public relations program aimed at the consumer, more direct lobbying by Green Industry organizations at the state level, and others were suggestions to accomplish the objective.

Of particular note was a discussion of the Pesticide User Conference (PUC) by F. Farrell Higbee. He said that this informal gathering came about to increase the understanding of pesticide legislation among concerned manufacturers of environmental protection chemicals and member organizations.

It was decided that the Green Industry Council attend a working meeting of the PUC, if possible, to gain a better appreciation of this group. The Council would then meet separately and elect permanent officers and appoint committees.

Temporary chairman of the Green Industry Council is Bill Owen, General Spray Service, Clackamas, Ore.

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For the first time on a National basis, a complete, total training course on all phases of lawn care and grounds maintenance will be offered.

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You will be able to quickly apply this information directly, with large profits.

These Consumer Educational Clinics will highlight and discuss in depth:

LAWN CARE • How grass grows • What is fertilizer and how to choose the proper type • What is soil and how to improve it • How you can work with Mother Nature's rhythm to obtain success easily • Weed control, prevention • Mechanical control and maintenance procedures • Spotting lawn problems • Chemical control • Programming • Job training methods.

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The entire training program is designed for anyone and everyone engaged in all phases of grounds maintenance. Included are Purchasing Agents, Superintendents, Salesmen, Servicemen and Others.

Material will be presented on an "Eye to Eye" basis. No complex terms. No knowledge of Chemistry, Physics, Botany, Math or any other technical background required. Everything will be presented so that all attending can readily understand the subject matter. The sole purpose is to give the facts and present everything necessary for the participant to use professionally, immediately and directly in his job.

You will be immediately qualified to sell and service lawns and outdoor areas after attending one of the clinics.

You will be able to:

- Solve your customers' grounds maintenance problems.
- 2. Prevent them from reoccurring.
- Establish and keep beautiful lawns and grounds with a minimum amount of expense, time and labor.
- 4. Present a professional image along with positive results and knowledge.
- 5. Attain additional recognition along with increased earning capabilities.

Those attending will receive the following:

Attendance at all sessions for entire three days Complete training and problem-solving manuals, "Grow & Control", scientific grounds control techniques by Don Arenberg, Consulting Agronomist \$150.00 Professional special purpose diagnosing equipment Professional special purpose measuring device Demonstration & Performance sampling kits Breakfast snack, refreshments, complete luncheon meals \$160.00 for three days \$310.00 Value of course Less Agro Chem distributors special discount \$ 60.00 Total Cost

Space at clinics previously announced for Chicago, Columbus, Washington, Atlanta, Denver and Portland during January through April 1974 has been entirely booked. Reservations are now being accepted for following clinics:

Cincinnati, Ohio

January 14-15-16 - Netherlands Hilton

Dallas, Texas

January 30 & 31 & February 1 — Statler Hilton

Newark, New Jersey

February 11-12-13 — Robert Treat Hotel
Sessions are three days of fact-packed training.
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Note: Due to the high demand for these clinics, you are urged to make your reservations early. Seats will be reserved on a first-come, first-served basis.

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A permanent plaque has been placed on this specimum bur oak. Present are: (l-r) Ralph Mudrack, city arborist, Ft. Wayne; Ralph Husten, VP of Indianapolis Power & Light Co.; and Carl N. Pryor, Indianapolis Power & Light Co. and chairman of Ind. Arborist Assoc.

Indianapolis Bur Oak Saved From Destruction

Indiana Arborist Association members paid tribute to a specimen Bur Oak tree in October with a ceremony and plaque presentation.

The oak was on the property owned by the Kyles and was scheduled for destruction. Through the efforts of the Indiana Arborist Association and the auspicies of the Lilly Foundation, who donated money to purchase the oak and the property, the tree will be saved.

Today the oak is one of the historical landmarks.

Present for the ceremony was Ralph Mudrack, city arborist, Ft. Wayne; Ralph Husted, executive vice



A plaque presentation ceremony took place under the giant tree. It attracted many neighbors and members of the Indiana Arborist Association.

president of Indianapolis Power and Light Co. and former pres. of the Irvington Historical Landmarks Foundation; Carl N. Pryor, Indianapolis Power and Light Co. and pres. of the Indiana Arborist Assoc.; John Duling, president-elect, International Shade Tree Conference; and other members of the Indiana Arborist Assn.



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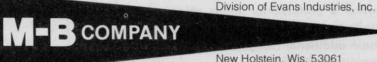
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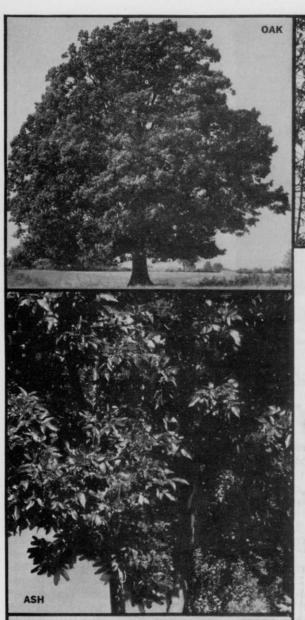
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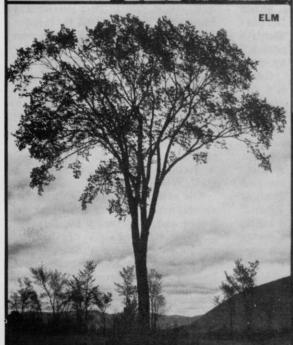
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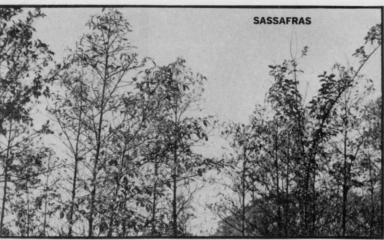
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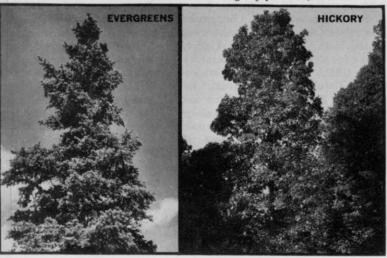
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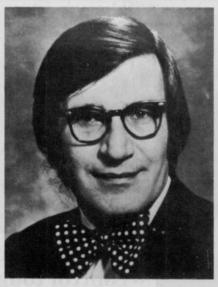
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William N. (Bill) Ossian, Shenandoah, la. will speak Jan. 29 on Shipping Nursery Stock.



Joseph Hudak, vice president of Olmsted Associates, Inc., Brookline, Mass., is a landscape architect. He will speak on Jan. 31 on Approaches To Home



Ira Hayes, asst. vice president, National Cash Register Co., Dayton, Ohio, will speak Jan. 30 on Keeping Pace With Tomorrow.

65 Speakers, 5 Business Areas, 5 Days Ohio State University Short Course

A short course for arborists, turf management specialists, landscape contractors, garden center operators and nurserymen has been scheduled by Ohio State University for Jan. 27-31.

Site for the course is the Sheraton-Columbus Hotel, Columbus, Ohio. Each day's speakers will center their discussions around the overall topic of the day. Thus, individuals wanting to attend only that portion of the meeting pertaining to their particular business may come on a specific day.

The program dealing with commercial arboriculture encompasses two days. Following registration on Sunday, Jan. 27, delegates will hear a panel discussion on "Trees Under Stress" chaired by Dr. L. C. Chadwick, secretary, Ohio Chapter, International Shade Tree Conference, Columbus, Ohio. Panel members and topics include: Dr. Henry Cathey, Chief, Ornamentals Laboratory, ARS, USDA speaking on "Perspective - Nature of Urban Stress;" Dr. Bruce R. Roberts, Shade Tree and Ornamental Plants Laboratory, USDA, Delaware, Ohio and his topic, "Water Stress;" Dr. Spencer H. Davis, Jr., department of plant pathology, Rutgers, "Air Pollutants And Gas Injury;" Dr. Elton M. Smith, landscape horticulture extension specialist, Ohio State University, "Salts and Herbicides;" Dr. Henry M. Cathey, "Stress from Mercury Vapor Lamps;" and H. M. Van

Wormer, Van Wormer Tree Service, Inc., Richmond, Va., "Alleviating Stress Below Ground."

Speakers for the next day's session are: Dr. Philip C. Kozel and Raymond R. Chapin, department of horticulture, Ohio State University who will review "Shade Tree Evaluation Studies - OARDC;" and Prof. Clarence E. Lewis, professor emeritus, Michigan State University, whose topic will be "Trees, Shrubs and Evergreens Tolerant to Urban Stress." Dr. Charles L. Wilson, Shade Tree and Ornamental Plants Laboratory, USDA, will discuss "Benlate and Injection Systems - Updated." Last speaker on the morning program is John Mixon, forester, Georgia Forestry Commission, and his topic "Urban and City Street Tree Programs and Problems."

Arborists and others attending the afternoon session will hear two well-known speakers and then split into workshop sessions. F. Lewis Dinsmore, Dinsmore Tree Service and ISTC president will discuss "Bidding and Pricing Tree Work for Profit." He will be followed by Robert Felix, Harder Services, Inc. and past president National Arborist Association. Felix will speak on "How to Manage an Arborists Business."

The split sessions will concern commercial arboriculture, utility arboriculture and Municipal arboriculture and park management. The sessions will permit time for speakers and questions and answers. Evening speaker is Prof. Ron Taven, University of Missouri. His topic is "Can't See The Trees For The Forest."

Concurrent with the second day of the arborist program will be a day devoted to turf management specialists. Moderator for the morning session is Dr. David P. Martin, extension agronomist, Ohio State University. Topic to be discussed include. "Soil Testing for Turf Areas" by Dr. John F. Trierweiler, extension agronomist, OSU; "Turf Fertilization Programs" by Dr. Paul R. Henderlong, department of agronomy, OARDC, Columbus, Ohio; "Turf Renovation and Overseeding" by Ned Brinkman, sales engineer, Jacobsen Manufacturing, Racine, Wisc.; "Turfgrass Shade Culture" by Dr. James F. Wilkinson, department of Agronomy, OARDC, Columbus, Ohio; and "Planning For Turf Maintenance" by Fred K. Buscher, area horticulture agent, extension service, OSU, Wooster, Ohio.

The afternoon session will include recommendations for bluegrass, fescue and ryegrass by Dr. David P. Martin; efficient use of turfgrass equipment by Gene Probasco, Central Ohio Sales Representative, Lakeshore Equipment & Supply Company, Cleveland; "Selling Turf Products" by William Weagly, manager, Scotts Training Institute, O. M. Scott & Sons, Marysville, Ohio; and "What's Bugging You?" by Dr. Richard Miller, extension entomologist,

OSU and Dr. Robert Partyka, extension pathologist, OSU.

Nursery day is planned for January 29. Moderator for the morning session will be Dr. Ken Reisch, associate dean, college of agriculture, Ohio State University. Speakers are: Prof. Ron Taven who will discuss "Techniques of Using the Camera Effectively;" William Ossian, Shenandoah. Ia. whose topic is "Shipping Nursery Stock;" Dr. Jack Gartner, horticulture department, University of Illinois, "Hardwood Bark As A Growing Medium;" and Al Fordham, Arnold Arboretum, Cambridge, Mass. who wil speak on "Dwarf And Abnormal Conifers And How They Originate."

Following a discussion on new plants by Prof. Clancey Lewis, Michigan State University, delegates will adjourn to split sessions. Topics this year are: Propogating Softwood Cuttings; Medias For Container Nursery Stock; Pest Control — Wildlife, Diseases, and Insects; and Weed Control — Keys To Success.

Of interest to many will be a day devoted to garden centers. Prof. Ransom Blakely, horticulture department, Purdue University will discuss a case study of how advertising helps the garden center business. Loren Bloom, Franks Nursery Sales Inc., Detroit, Mich. will present a discussion on "Trends In Consumer Demands For Plants." "Merchandising Bedding Plants" is the topic of Dr. Will Carlson, horticulture department, Michigan State University.

Again, split sessions will highlight the afternoon. Three workshops have been announced: Foliage plants For Garden Centers; New Ideas For Sales; and Garden Center Layout And Display.



F. Lewis Dinsmore is president, Dinsmore Tree Service, Inc., St. Louis, Mo. and president, International Shade Tree Conference. He will speak Jan. 28 on Bidding And Pricing Tree Work For Profit.

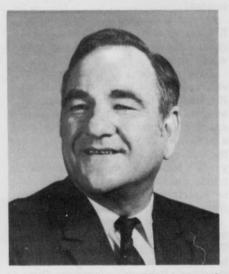
In addition, Robert Tuinstra, Fruit Basket Gardens Inc., Comstock Park, Mich. will discuss "Coordinating The Advertising Program" when the delegates reconvene. He will be joined by Ira Hayes, assistant vice president, National Cash Register Co., Dayton, Ohio, who will discuss "Keeping Pace With Tomorrow."

The last day of the short course will concern landscape contractors. Dr. Davis Sydnor, assistant professor, horticulture, Ohio State University will be moderator in the morning; Dr. James Aylsworth, extension horticulture agent, Ohio State University will be moderator in the afternoon.

Joe Hudak, Olmsted Associates, Inc., Brookline, Mass. will discuss "Approaches To Home Landscaping." He will be followed by a speech "Combining Plant Materials And Design In The Residential Landscape" by William Heard, Heard Gardens, Des Moines, Ia. Last speaker in the morning will be Dr. Roy Mecklenburg, horticulture department, Michigan State University. His topic is "An Analysis of Landscape Bidding Practices."

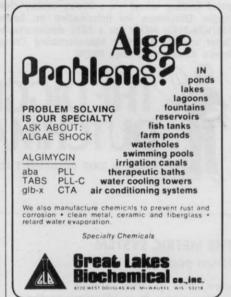
Of particular note this year will be a speech by Dr. Jot Carpenter, chairman, landscape architecture, Ohio State University. His speech title is "Landscape Design Critique."

In the split sessions that follow, delegates will be able to choose between three topics to further their knowledge in landscaping: Practical Bidding Systems; New and Improved Plant Materials; and Landscaping For Simplified Maintenance. A panel of four landscape professionals will head the first session. Topics covered in the plant materials sessions include ground covers, perennials and



Dr. Jack Gartner is head of the division of ornamental horticulture, University of Illinois. He will discuss Hardwood Bark As A Growing Medium on Jan. 29.

trees and shrubs. The last session will deal with making maintenance simpler in commercial and residential landscaping. Products to accomplish this job will be discussed.



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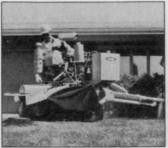
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THE METRIC SYSTEM

(from page 14)

days. This is now known as the Celsius scale. It is identical to the old Centigrade scale; it has simply been renamed to honor the scientist who originated the idea. Zero on the Celsius scale is the freezing point. 100 degrees Celsius is the boiling point of water.

After you have checked the temperature on this morning 20 years from now, you shower and shave and sit down to breakfast. Instead of taking a quart of milk from the refrigerator, you take a liter of milk just a fraction more than a quart. If you have a bowl of cereal, the box gives the net weight in grams, not in ounces

After you finish breakfast, you kiss your "perfect 91" good-by and hop into the car for the drive to your office. The office is no longer 10 miles away but, instead, 16 kilometers away. And you don't drive 60 miles an hour. You drive 96 kilometers an hour.

On the way you stop for gas and tell the attendant to "fill it up." He puts in 60 liters — about 16 gallons. At today's gasoline prices, the attendant would charge you between 10 and 12 cents a liter. I have a suspicion the price may be higher by that time!

So far, except for the Celsius temperature scale, the metric terms we have used are familiar - liter, gram, kilometer. But if you ask the gas station attendant to check your tires, he won't inflate them to 30 pounds per square inch but, rather, to 200 kilopascals. The "Pascal" is a unit of pressure, and to most of us it is a new term that we will learn to use when we convert to the metric system.

In our daily life, we will use the metric system in many other ways. When we mow our lawns, we will set the mower for 5 centimeters, not 2 inches. When we buy a belt, it will be so many centimeters long. When we order lumber, we won't order 2 by 4's. And when we step on the bathroom scale, it won't read 200 pounds. It will read 91 kilograms.

We and our parents and grandparents have been happy with our Fahrenheit thermometers, our 12inch rulers, and our quarts of milk. Why should we change to the metric system?

One, it is a better system than our English system. It is simpler, more coherent, more logical, and easier to work with.

Two, we have no choice. The entire world is going metric. Even England, where our system of weights and measures originated, has adopted the metric system and, over a period of 12 years, is phasing out the old system of inches, feet, and yards; ounces, pounds, and tons; pints, quarts, and gallons. Mexico is metric. Canada has committed itself to going metric.

We are almost alone in the world in sticking to the English system. There are only 11 other countries that haven't taken steps to go metric, Trinidad, Barbados, Jamaica, Guyana, Gambia, Sierra Leone, Southern Yemen, Muscat, and Oman and Burma. In addition to these, there

are two small island countries in the Pacific, Tonga and Nauru, which have still not committed themselves to the metric system.

This is a ridiculous situation for the United States. We are in step with 11 countries which have a combined population less than the state of Texas and a combined area just slightly larger than the state of Texas. We are out of step with the rest of the world.

Obviously, the United States has to go metric. Is it a big step? Of course it is. But it isn't as big as we might

There will be a period of transition. You and I have a period of years in which to learn to use the metric system.

Secondly, that transition period has already begun.

In our daily life, we are accustomed to buying 8 mm, 16 mm, and 35 mm film for our cameras. Your druggist measures your prescription in grams and milligrams. Many of our packages today are expressed in weight by both ounces and grams.

Some of us may be counting calories. Others perhaps should be. A calorie is the amount of heat required to increase the temperature of one gram of water one degree Celsius, and is therefore a metric unit. So keep on counting calories. They won't change.

In our business life, that transition period has begun also. The real effort and the actual dollar costs of converting to the metric system fall most heavily on business and in-

(continued on page 86)