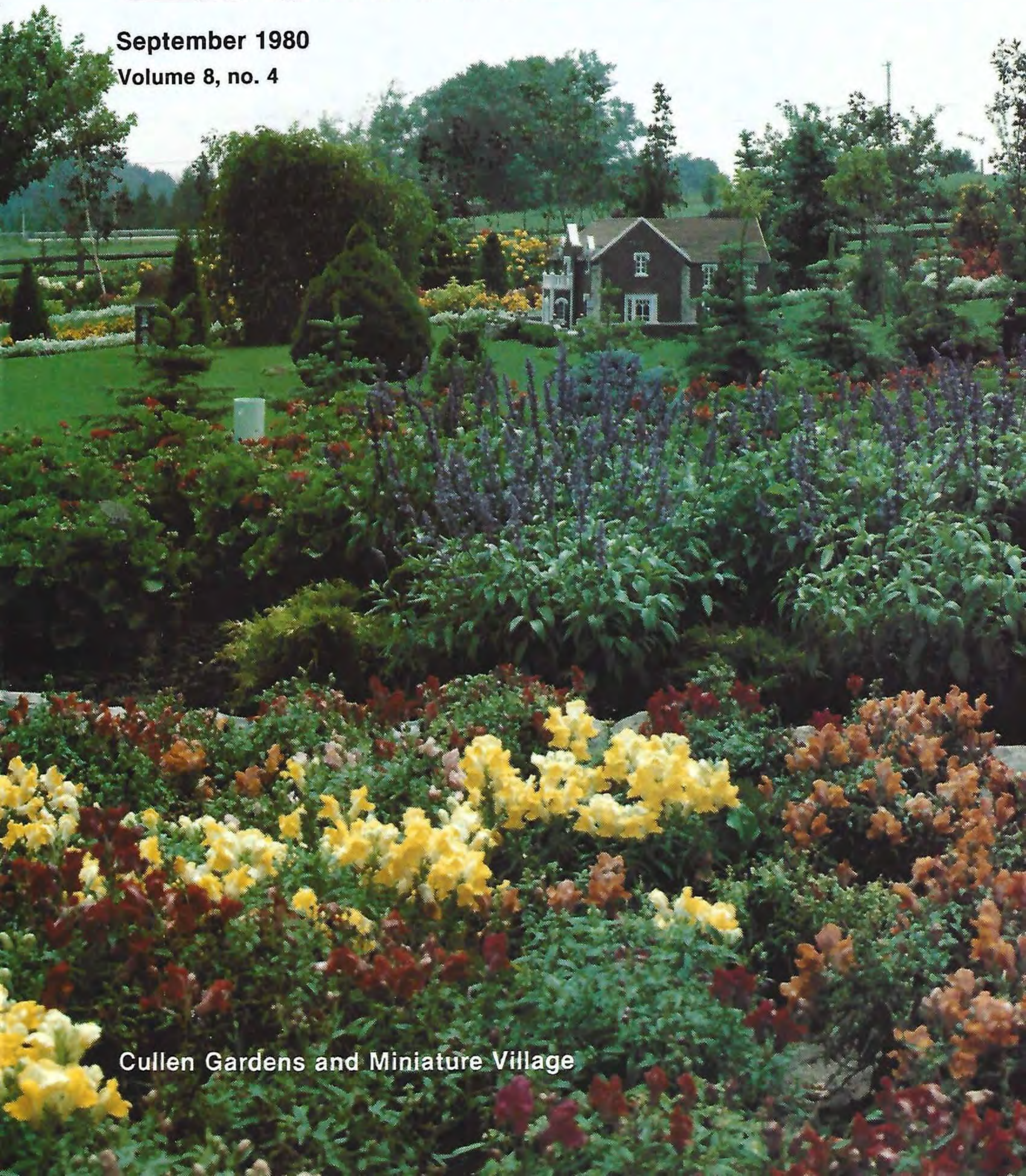




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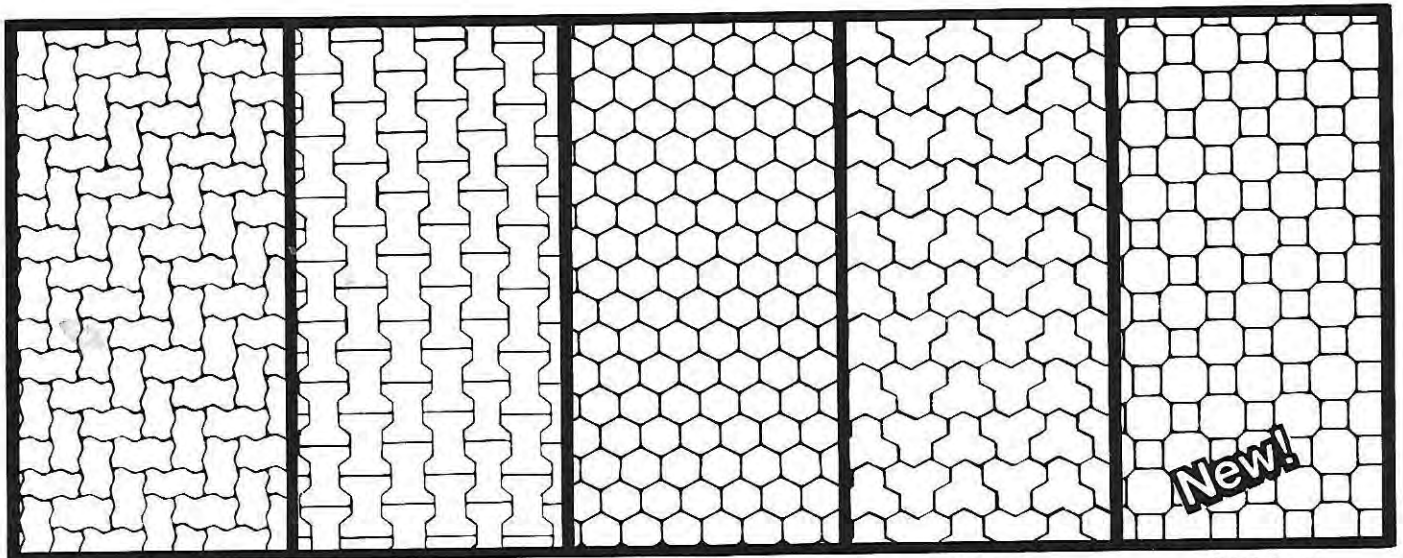
September 1980

Volume 8, no. 4



Cullen Gardens and Miniature Village

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Volume 8, no. 4 September 1980

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Our front cover

Cullen Gardens and Miniature Village in Whitby presents acres of beautifully landscaped grounds surrounding a most unique little southern Ontario town. True reproductions in miniature of over 100 historic buildings are set in dwarf landscapes with tiny furniture, lighting, small people, automobiles and an operating railway, all built to a 1:12 scale. See story beginning on page 18. (photo by Judy Palmieri)

Subscription rates: one year — \$12; two years — \$18; three years — \$24. Please make cheques payable to **Landscape Ontario**. Views expressed do not necessarily reflect the views and opinions of the association or its members, but are those of the writer. Material may not be reproduced in any form without written permission of publisher. Second class mail registration number 3740. ISSN 0383-9257.

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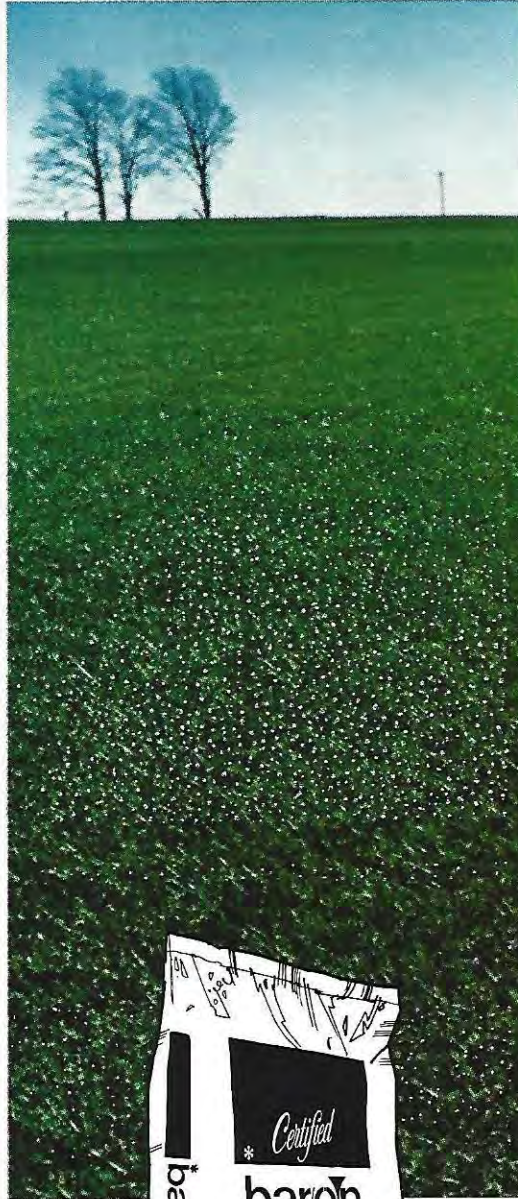
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PRESIDENT'S MESSAGE Survival!



Frank Kearney
H.C. Downham Nursery
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My column this month is a "pot-pourri" of thoughts and personal views.

For us in the nursery industry, Green Survival is two things — a promotion campaign AND profitability. All of us in the trade have watched with anguish as our fellow-professionals feel the pinch or, sadly, have to fold up and go out of business. It's time we looked at Green Survival in our own operation. Our industry must have profits to survive — to weather the lean years.

I listen to garden centre operators and landscapers talk themselves out of an honest return for their efforts and for their investments. How often have you heard, "I better not increase my prices as much as inflation for fear of losing business?" The fellow who said that didn't lose business, but lost his business, through bankruptcy. Who are you afraid of?

Darned if I know!

Simply stated, for this industry to be healthy it has to be profitable. For it to be profitable, fair pricing has to be used. Don't cheat yourself. You owe yourself an adequate reward for your efforts.

There's a Gold Mine in them Trees

Are you tired of the phrase "energy conservation"? I certainly

am. But wait, there's a new twist, a twist which can mean more business for you and savings for your homeowner customers. Of course, you say, it's using plants for energy conservation — I've heard it before!! Well, ask yourself, how much do you KNOW about the practical side of landscaping for energy conservation? Not much, I'll bet! There just hasn't been anything substantial in the trade journals or in the recent educational programs. Well, all that's changed. Landscape Ontario wants to make you an expert in using plant material for conserving energy. Research is currently being done on behalf of Landscape Ontario into what we already know about energy conservation. The information will be compiled in order to be available to our membership. Not only that, this year's Congress will include a presentation, practically oriented, on this very subject.

Here is your opportunity. Landscape Ontario will provide the press releases to stimulate the public interest in using plant material for energy conservation. Landscape Ontario has sponsored the research to give you the background information and Landscape Ontario will see to it that this information is condensed and made available to you at Congress in the form of a presentation. The opportunity is yours. It could be a gold mine for you!

Accolades

We all know the sense of accomplishment that an individual feels when he is recognized for his efforts or achievements. Well, our Executive Director should be feeling very proud of his accomplishments as he was recently granted the professional designation "Certified Association Executive" by the Institute of Association Executives. He had to complete a strenuous series of courses and examinations before joining the sixty other professionals in Canada who hold this designation. Congratulations, Dennis.

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12 to 18 ins., S, 1-0	100.00	300.00
18 to 24 ins., S, 1-0	146.00	440.00
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★ Eastern White Pine

A very fast growing variety which tolerates shade. A fine Christmas tree, windbreak, timber tree.

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3 to 6 ins., X, 2-1	98.00	295.00
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★ Norway Spruce

Beautiful ornamental, fast growing spruce that grows almost anywhere. Ideal for Christmas tree and windbreak.

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Retailer ad kits, P.O.P., and merchandising aids plus in-store support will be

available to all Scotts dealers. Our product information seminars and reference manuals will give you the knowledge to solve your customers' lawn and garden problems with the right Scotts product.

All the sales support in the world, however, is useless unless you start with quality products that perform. Scotts products are of the highest quality and are backed up by fourteen years of agronomic testing in Canada and our famous "No Quibble" guarantee that is second to none.

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COMING EVENTS

Hamilton chapter	Sept. 4/80	8:00 p.m.	Bohemian Restaurant and Tavern, Hwy. 5, "2,4-D Controversy" with speaker Rod Hermitage of Green Cross Products, also "edging materials" with a representative from Valley View Specialties.
London chapter	Oct. 6/80	8:00 p.m.	Lamplighter Best Western, Wellington Rd., London. "Turf Pests and Problems", with guest speaker Rudy Brown.
	Nov. 3/80	8:00 p.m.	Lamplighter Best Western, Wellington Rd., London. "Dealing with your Banker and Analyzing Financial Statements".
Ottawa chapter	Sept. 9/80	8:00 p.m.	Talisman Motor Hotel, Carling Ave. "Solar Energy" with speaker Mr. Doug Shadbolt, Carleton University.
	Oct. 14/80	8:00 p.m.	Talisman Motor Hotel, Carling Ave. Debate on Condominium Maintenance contracts to be adjudicated by Gerry Laroque of Laroque Landscape Architect Co.
	Nov. 11/80	8:00 p.m.	Talisman Motor Hotel, Carling Ave. "Landscaping & Associated Industry from a politician's point of view" with Mr. Claude Bennett, MMP.
Toronto chapter	Sept. 9/80	8:00 p.m.	Holiday Inn, 401 & Dufferin St., Toronto. 7:30 cash bar. "Banking and the Small Businessman" and a discussion on pressure heated wood.
	Oct. 14/80	8:00 p.m.	Holiday Inn, 401 & Dufferin St., Toronto. 7:30 cash bar. Turf Care Management panel led by Bruce Calhoun in co-operation with Dr. Jack Eggens (University of Guelph) and Dr. Fushtey (University of Guelph). Services offered by the Federal Business Development Bank.
	Nov. 11/80	8:00 p.m.	Holiday Inn, 401 & Dufferin St., Toronto. 7:30 cash bar. "Cost Accounting and Estimating" St. John's Ambulance demonstration. Speaking about fruit trees for the homeowner. Chapter elections.
	Nov. 14/80		Fall Freeze Up Dinner & Dance. Ramada Inn Toronto - Don Valley, 185 Yorkland Blvd., Willowdale. Contact: Mrs. Helen Haines, 32 Lauralynn Crescent, Agincourt, Ontario. Telephone: (416) 298-8707
Waterloo chapter	Sept. 3/80	8:00 p.m.	Bingeman Park, Kitchener. "Landscaping"
	Oct. 1/80	8:00 p.m.	Bingeman Park, Kitchener. "Maintenance and Snow Removal"
	Nov. 5/80	8:00 p.m.	Bingeman Park, Kitchener. "Money Nite"
	Nov. 15/80		Fall Freeze Up Dance. Waterloo Motor Inn
Windsor chapter	Sept. 9/80	8:00 p.m.	Roseland Golf Club, 455 Kennedy Dr. W., Windsor. "Landscape Plans and Estimates" arranged by Don Klinck.
	Oct. 14/80	8:00 p.m.	Roseland Golf Club, 455 Kennedy Dr. W., Windsor. "Farm Safety" arranged by Robert Pulleyblank.
	Nov. 11/80	8:00 p.m.	Roseland Golf Club, 455 Kennedy Dr. W., Windsor. "Turf" arranged by Richard St. Louis.
Growers Group	Sept. 18/80		Nursery Tour to Brookdale-Kingsway Ltd., Bowmanville and Sheridan Nurseries Hope Farm. Further information can be obtained by contacting the Landscape Ontario office.
	Oct. 16/80	7:30 p.m.	Bohemian Restaurant, Waterdown. General meeting. "Herbicide Use in the Nursery, Where are we Heading?". Panel discussion on cost accounting in relation to the production of nursery stock.
	Dec. 11/80	9:30 p.m.	University of Guelph, Arboretum Centre. Growers Day Program topics include: transportation of Nursery Stock, shipping, inventory control.
Lawn-o-rama	Sept. 10/80	1:00 p.m.	Duke Lawn Equipment Research Centre, 3326 Lakeshore Rd. W., Oakville.
Milne House Garden Club	Sept. 17/80		St. Bonaventure's Church Hall, Leslie & Lawrence, Toronto. Annual Flower Show. Contact: Mrs. J.W. Ross, 444-9126
ODH Educational Tours	Sept. 13/80	1:30 p.m.	Scarborough Parks. "Flower Beds and New Developments". Conducted by Brian Sutton.
ODH Educational Tours	Oct. 4/80	9:30 a.m.	Connon Nurseries. Conducted by Neil Vanderkruk.
Land Conference	Nov. 14-15/80		University of Guelph. Contact: University School of Part-Time Studies & Continuing Education, Guelph, Ont. N1G 2W1.

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A FEW WORDS



Dennis Souder
Executive Director

Congress Progress

Committee Chairman Jim McCracken of Hugh McCracken Limited and Director, Member Services, Bob Cheesman and the whole Congress Committee have been actively at work in preparing for the 1981 Landscape Ontario Horticultural Trades Congress. Program details have all but been finalized and there has been extremely strong response from exhibitors for the Trade Show. This year the amount of exhibit space available will be expanded to provide an even greater variety of goods and services for members of the industry to discover.

Staff Changes

It is a pleasure to announce that there have been 2 recent additions to the Landscape Ontario staff. Sue Simons has taken over the position of Accounts Supervisor succeeding Stephanie Wilson who returned to Sheridan Nurseries. Sue has previously been associated with a number of companies in Australia, most recently IBM, and held various administrative and accounting positions.

Our second new staff member, Judy Palmieri, has been appointed Manager, Communications. In addition to acting as Editor of both of Landscape Ontario's magazines, Judy assumes the role of Chairman of the Magazines Committee and will be actively involved in the preparation and creation of promotional material for the association. She was most recently associated with the Graphics Department of the University of Windsor of which she is a graduate, and she has previously served in various

publishing administrative positions in the province. The magazine which you are reading is the second for which Judy has been responsible.

With these two additions, the staff of Landscape Ontario remains at five persons. The others are: Bob Cheesman, Director, Member Services; Millie Bauer, Secretary; and myself as Executive Director.

CNTA

Substantial changes in the operations of CNTA were formulated in the proposed draft constitution presented to the Board of Directors at their August meeting in Calgary. Members of Landscape Ontario will receive a reasonably detailed breakdown of the constitution and its significance to Landscape Ontario and the industry in Canada either directly from CNTA or through Landscape Ontario's own F.M.O.

Plant Source List

Again in 1980, Landscape Ontario will publish a Plant Source List and Grower Members have already been requested to submit their data for the new list. This year's Source List will be distributed as a Member Service to all members of Landscape Ontario. In addition, it will be available to Landscape Architects who are members of the O.A.L.A. At the same time, work will proceed on the 1980 Landscape Ontario Membership List which will include those members fully paid at 31 July.

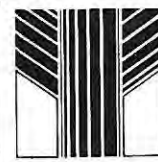
Membership Plaque

An attractive, new membership wall plaque has been designed and prepared for Landscape Ontario members. An order form illustrating the new plaque will be sent to members shortly along with pricing details and instructions on how to order.

The plaque features an area for a year sticker to be changed with each renewal and these new format stickers will replace the seals previously sent to members with membership certificates. The plaque features the Landscape Ontario logo and brass panels for engraving the company name and another panel incorporating the word "member" with an area for affixing the membership year sticker. All this is mounted on a solid walnut support and should prove an attractive addition to any member's office. A variety of designs and combina-

tions was reviewed and a final design was selected by the Board of Directors at its early summer meeting.

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Casey van Maris
President of
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Specifications, The Why's For Who, Which One?

Ever since I can remember, Landscape and Nursery Specifications have been written by departments, engineers, nursery associations, landscape associations, architects, landscape architects, consultants and others too numerous to mention. The Canadian Nursery Specifications were the first to standardize plant material across the country, yet even today not everyone adheres to these standards. The prime example must be along Highway 404, where nursery stock was accepted that can not even qualify as lining out stock or whips. As far as landscape specifications are concerned, they are too numerous to mention. Often they are written

by people who have not worked with trees or shrubs for any length of time, or, if they have, it has been in some other geographical area with problems totally unrelated to the area for which the specifications were written. During the course of one year, a landscape contractor receives at least 50 different sets of specs. It is no wonder that he feels specs are over-written, over-specified, unrealistic and in some cases ridiculous. All of these specifications could still be acceptable to the contractor if those who specified them would assume the responsibility for the guarantee. Instead, contractors are asked to provide guarantees for up to two years or even longer without having a maintenance contract. It is little wonder they have no respect for specifications and usually ignore them. They will continue to do what, in their experience, has worked best.

Farm Safety Awards Program Outlined

The Ontario Farm Safety Association's Awards Program has a two-fold purpose: 1. To honour those in agriculture who have observed safety awareness resulting in the prevention of serious injury or death. 2. To provide an awareness of farm safety through the recognition of individuals who have escaped serious injury or death through the observance of safety measures.

The award takes the form of an attractive plaque with the recipient's name inscribed.

Any individual in Ontario directly involved in agriculture who has been spared serious injury or death due

to the observance of safety measures will be considered as a Safety Awards candidate. The judges will consist of a Committee named by the Farm Safety Association's Board of Directors. Only one Safety Award per individual will be given.

Supporting data that must be supplied on a safety awards candidate:

1. Name, age and full address of the candidate.
2. Two or more endorsements of the incident.
3. Details of the incident must be defined as clearly as possible.
4. Type of agricultural operation candidate was engaged in at time of the incident.

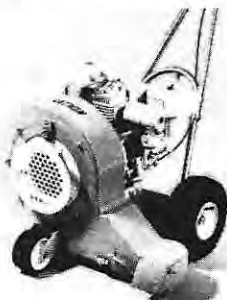
5. Candidate must be willing to give a testimony of the incident and be willing to receive publicity.

Nomination Procedures

Nominations for Safety Awards will be accepted by the Farm Safety Association only if submitted through a local farm safety association or an agricultural commodity organization. Recommendations for Safety Awards candidates originating elsewhere must receive the approval of, and be channeled through such organizations.

Safety awards will be presented annually at the Fall Area Meetings held in November at various locations in Ontario.

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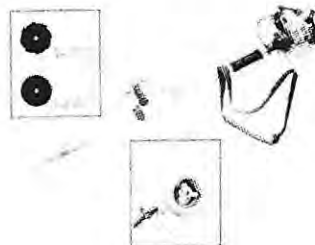


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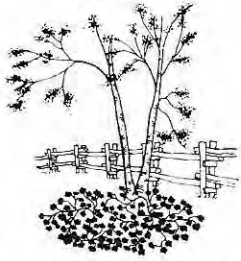


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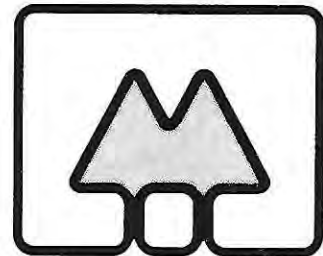
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Canada's Wonderland

a National Theme Park

Probably the country's largest landscaping and site work program is presently underway in the creation of Canada's Wonderland. This 320-acre park located northwest of Toronto in the township of Vaughan, will offer visitors five specially themed areas containing pavilions, restaurants, boutiques, theatres and amusement rides all in distinctively landscaped settings. Although the official opening is not scheduled until May 1981, actual construction should essentially be completed by October, 1980. The total cost of the project, including land acquisition, construction and equipment costs, is expected to run to \$108 million. More than 60% of this amount comes from Canadian sources. The cost of site development and landscaping is \$12 million; in excess of \$2 million is being spent on trees, shrubs and ornamentals.

According to Bruce Robinson, director of project design for King's Productions, "Canada's Wonderland is the most thoroughly integrated of any park in North America. We've had to develop



The reflecting pool as seen from the mountain.



Workmen planting one of the many trees.



The mountain, prior to the spraying of concrete. Note the wire mesh used for forming the mountain-like appearance.

themes that pertain to Canadians, and are generic to the history of Canada. Everything has been designed with conservation in mind. The natural rain pattern will be enhanced with the creation of a lake. The mountain will be the focal point of the park in many ways. Not only will it contain rides and restaurants, but it will contain all the electrical equipment that will provide power to the park. The waterfall is part of the cooling system for various buildings. Water, except for drinking, is re-circulated and also used for irrigation. Plant material is extremely important and will suit each of the theme areas."

Landscape Architecture

Landscape Architects for the project are Moorhead Fleming Corban Inc. Steve Moorhead, president, says: "Being in at the beginning, we were virtually able to lay out the areas for landscaping, because we had input into where buildings, underground pipes and wiring were to be placed. This makes it possible to get the most out of landscape architecture."

Almost two miles of planted Berm surround the park and act as a screening for the local community. Inside are a number of ponds and small lakes named after the various areas. Since the ponds are formed as a result of widenings of the creek that runs through the park, consideration had to be given to possible flooding. A series of dams, weirs and waterfalls had to be built. Water from a 60-ft. waterfall cascades down a 150-ft. man-made mountain into a pool, is purified, and then returned to the system. For safety, all the lake and pond edges were graded to a very shallow depth.

Because of the heavy clay condition under the topsoil, special care was necessary in the planting of the \$1.5 million worth of trees. The selection included varieties of Ash, Norway Maple, Horse Chestnut and Honey Locust that are native to the site. Bruce S. Evans Ltd. and Disher-Farrand Ltd., both Toronto based contractors, have about 250 landscapers working on the project.

Because of the co-ordinated design concept, virtually everything on the surface, the paving, planting, light fixtures, water features and rock formations as part of the overall visual image, were tendered to general contractors. The result proved to be co-operation and efficiency since paving, planting and wall construction were totally co-ordinated into the overall plan.

After the first year, the number of visitors is expected to be in the 30-40 thousand range per day and the 1½ mi. of seat walls will serve an important traffic control function.

Themed Areas

International Street: Opposite the entry plaza will be the International Street with the Royal Fountain and its computerized fountain and light display. Flanking the huge pool, four pavilions representing Latin, Mediterranean, Scandinavian and Alpine architectural styles will feature appropriate food and merchandise.

The International Festival: Dominating the park will be a 150-ft. mountain and waterfall. From the brink of this waterfall, divers will perform a sensational display of skill and daring. In the 3500-seat International Showplace, at the base of the mountain, Canadian students will sing and dance. There will also be four specially themed rides.

Grande World Exposition of 1890: Imagination runs wild in this area of Canada's Wonderland where world architecture of the period will predominate with a multitude of rides.

The Medieval Faire: Rides, restaurants, boutiques and the 1200-seat air-conditioned Canterbury Theatre where live shows will be performed daily, await the guests.

The Happyland of Hanna-Barbera: The fun-filled fantasyland of Fred Flintstone, Yogi Bear, Scooby-Doo and other Hanna-Barbera cartoon characters will welcome young visitors. Specially-designed rides and the ever popular Sea Lion and Dolphin shows in the Salt Water Circus will be featured.

Frontier Canada (projected for 1982): This theme area will take visitors back to the Goldrush days of 1898. Proposed attractions include "The Cremation of Sam McGee", a logging show, several rides and a frontier-style restaurant.



The medieval castle with stonemasons working on the facing.



Workers laying some of the 2,900,000 cement pavers used in the park's walking areas. Note viking ship in background.

Cullen Gardens and Miniature Village

The realization of a dream does not necessarily preclude its termination. In the case of Len Cullen, founder of Cullen Gardens and Miniature Village, it signifies the inception of a place of beauty and delight to be shared with those who visit.

While Len was working at Edwards Gardens in Toronto, the germ of an idea to create his own public garden began to develop. The enthusiasm for a miniature village resulted from a visit to Woodleigh Replicas on Prince Edward Island. More information and advice was obtained by looking at miniature villages in other parts of the world. Two of these were at Maduradam in Holland and at Babbacomb, in Torquay, England. When the opening ceremonies were held on May 30th, one of the guests to attend was the founder of Babbacomb Model Village, Mr. T. Dobbins.

The gardens themselves are located on 50 acres of rolling, treed farmland, purchased in 1966. Some landscaping, such as planting trees and putting in a valley pond, was done at that time. The intervening years were spent planting more trees, building a covered bridge, laying out hundreds of rose bushes, and creating a miniature village, to a scale of 1 to 12, on the site. Approximately fifteen acres are presently open to the public with plans for further development already well advanced.

The two acre village nestles among the thousands of roses and masses of annual flowers which form a colourful background for the series of streams and waterfalls throughout the gardens. The water of this system is recirculating and can be made to flow at variable speeds. An underground, retractable sprinkler network handles the problem of keeping the grass moist. The complex work of trimming and grooming around the gardens and miniature buildings has been done by a crew of 10 groundsmen, mainly students. The dwarf landscapes are mainly full sized plant material which requires frequent maintenance. Attempts are being made to obtain and utilize actual dwarf species. Some 2500 rose



bushes froth over with colour and every bloom is perfect since they are clipped as soon as their peak has passed. The ornamental topiary garden features beautifully sculpted trees and bushes, some of which have taken ten years to achieve their present shape and volume. The man responsible for the talented landscaping and planting is Art Par-rinder. The colourful annual flower beds were executed by Tom Powers.

Every one of the 100 buildings in the miniature village is an authentic reproduction of one found

somewhere in southern Ontario. Owen Hachey, project manager, is responsible for the technological skill and artistry exhibited in their creation. In order to accomplish this end, it was necessary for him to make many trips to photograph the various homes from which the models were made. The construction of each replica took at least one full month and many took four or five months. The houses, shops, churches and farms are complete in every detail, including furniture, dishes and even newspapers on cof-

fee tables. The most expensive building to construct was the stone church with stained glass windows. What has to be the world's smallest working television set glows from one of the shop windows. The village train station, a model of the Whitby station is complete with a continuously running train. Eventually, there will be both a passenger and a freight train travelling the two track route. Miniature people, hand-made from epoxy are depicted in various aspects of everyday life — reading the paper on the veranda, walking down the street or working on road construction. At dusk, all of the buildings, street lights and automobiles light up and the hundreds of garden lights placed throughout the grounds create a colour wonderland after dark.

The gift shop and restaurant are contained in a barn originally constructed in 1850 and rebuilt in 1976, using materials from another barn of the same era.

The covered bridge leads down to the tranquil valley garden where black swans preen at the edge of

the reflecting pond. It is in this area that the next stage in Cullen Gardens' development is planned. A miniature amusement area, complete with all the concomitant sights and smells is being created. For now, that area is the domain of a strutting peacock.

Cullen Gardens and Miniature

Village is located just outside Whitby. Go north from the 401 at Whitby on Highway #12 for 3 miles, to Taunton Rd., turn west at the stop lights on Taunton Rd. for 1/2 mile to the garden entrance. Further information can be obtained by calling (416) 668-6606.



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Municipal Mulches

Etobicoke finds new uses for forestry by-products

When Metro Toronto closed Etobicoke's only sanitary land-fill site in 1978, the Borough was faced with the problem of finding a new way of disposing of its Forestry Division's by-products considered "garbage" and dumped at the site.

In this article, Denis McQuestion, N.P.D. (Niagara Parks Diploma), supervisor of the Forestry Division of the Etobicoke Parks and Recreation Services Department, tells how the problem was successfully solved by putting the materials to good use.

By Denis McQuestion, N.P.D.

The Borough of Etobicoke comprises the western portion of Metropolitan Toronto. It varies in physical composition from new subdivisions in the north, to portions further south that in some sections are over 100 years of age.

On January 1, 1978, a dramatic change occurred that severely affected the Forestry division of Etobicoke Parks and Recreation Services Department. On that date, Metro Toronto closed our only sanitary land fill site.

With thousands of immature trees to care for, we were faced with the dilemma of disposing of the by-products of our operation. Our 5-6 pruning crews generate from 15 to 45 cu. yds. of wood chips daily. During our tree removals, dozens of cords of wood were also produced. 90% of these materials had previously been considered "garbage" and dumped. A progression of our uses follows.

Compost

Our initial reaction was to compost the brush chips. We had prepared a compost yard in the fall of 1977 to enable us to compost all the leaves collected by the Roads Department. For about three months we hauled and stacked chips in this area. No chemical additives were utilized to accelerate the process. This initial compost heap was shredded in the fall of 1979 along with the leaves. The result was a rather grainy compost that when incorporated into our flower beds resulted in a highly favourable soil structure.



At the Etobicoke Municipal Centre, this slope was too steep to maintain. Chips are used and lightly replenished once a year.

Give Away

We were aware that in the waterfront land fill project, Metropolitan Toronto Parks could utilize vast quantities of chips to mulch the large planting areas planned. A local nursery also requested chips to utilize for their sales area. Both of these sites were convenient to our heavy work areas and were accessible in any weather. This provided disposal for nearly one year.

Erosion Control/Reforestation

In the spring of 1978 the Engineering Department engaged in the construction of a soil berm between a noisy industrial area and a private residential subdivision. No funds were provided for topsoil. Trees and shrubs were planted in soil pockets and the area seeded with trefoil. The area around the plantings was mulched with brush chips. By fall it was obvious that the only sections that were thriving from the trefoil were those areas that were mulched. Erosion rills were widening. We responded by applying an 8 in. mulch over the entire berm. Being a fall application, these chips were rich with ripe maple seeds. The trefoil has now established itself

and a considerable stand of Maples is developing.

Walkways/Roadways

Visitors to heavily wooded parks gradually develop walkways through the forests. These trails develop into muddy ruts. Our compost compound also has a clay base that tends to become very muddy when trucks travel over it. Periodic spreading of fresh chips over these areas provides some support for people and vehicles and keeps mud to a minimum.

Tree/Shrub Bed Mulching

We carry out planting programs spring and fall each year. With the widespread heavy clay and poor drainage in our area, we are forced to plant all our trees 4 in. to 6 in. above grade. Past experience proved that this practise prevented the trees from death due to excess water. However, watering in drought periods was extremely difficult as soil baked and crusted and cultivation resulted in extensive root damage.

Since the fall of 1977 we have been mulching these plantings to a depth of 3 in. to 4 in. within weeks of completion. We now realize

decimated losses, reasonable growth rates and little drought damage. Even in the extended drought of 1978, we found that moisture was still present in the root zone, although the surrounding soil was parched. Quickly pulling back the mulch to form a collar provides a basin which can be quickly flooded to permit thorough irrigation.

Shelter Belt Plantings

Recently we have embarked on heavy mulch applications along thousands of meters of road shoulders adjacent to expressways. These areas will be planted with shrubs that will mass the areas and filter noise and air pollution. In the interim period this mulch will minimize the manual labour and eliminate the necessity of regular mowing operations.

Other Uses

- Protecting nursery stock from drying out.
- Temporary summer storage of balled stock.
- Protecting root ball areas from frost to facilitate winter digging of trees for frozen ball moves.
- Protecting balled stock over winter from excessive freezing.
- Mulching forest floors to maintain organic content, reduce compaction, and mud.
- Reduce erosion.

Observations

- Discretion in application must be used to prevent tracking onto fine turf areas.
- Some bark decay can be experienced if heavy applications are made against trunks.
- Root damage from cultivation is eliminated.
- Mower damage to trunks is eliminated.
- No nitrogen starvation has been encountered.
- Mulched trees leaf later in the spring — however, no damage has been observed as a result.
- Root balls should be placed high to prevent possible soil saturation in heavy clay.
- Summer watering is not as critical and can be accomplished with ease.
- Brush chippers must be maintained regularly to obtain quality chips.

After two years of recycling this material it is obvious that with a little imagination, there is no limit to the use of this free organic material.



This photo of the East Mall Park shows an example of the use of wood chips over a large area. These 9 pines will eventually cover the area.



Even though it is set in a sea of asphalt, this tree is alive and growing due to the retention of moisture by the wood chips. It needs to be watered about once a month. Location: East Mall at Cloverdale Mall.



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1981 Congress Communication Within the Industry

By Bob Cheesman

We're getting ready! Have you marked the dates in your calendar? The **Landscape Ontario** Annual Congress will be held January 13, 14, & 15, 1981, at the Sheraton Centre Hotel. Exhibitors are returning their booth space applications at a rapid pace. Sixty-five per cent of exhibit space is already committed. Because of the interest shown by exhibitors in the past, the trade area in the Grand ballroom has been expanded by 24 - 10' x 10' booths.

Congress Chairman, Jim McCracken of Hugh McCracken Ltd., Brantford, is co-ordinating the events. The programme for Tuesday is being prepared by Doug Taylor of London Landscape with Greg Robertson of Robertson Florist & Nursery, North Bay, looking after Wednesday's arrangements. Planning for Thursday is being done by Bob Ziraldo of Ziraldo Farms and Nurseries, Niagara-on-the-Lake.

Since most of the programmes this year are geared to every segment of the industry, we are not assigning specific Landscape Contracting and Maintenance, Garden Centres or Growers days. With the cooperation of the speakers, we are obtaining topic outlines to enable participants to determine, in advance, which programmes they wish to attend. One alternative to consider is to participate in all three days of seminars and attend all meal functions for one low price of \$70 (member rate prior to Dec. 1). The Sheraton Centre Hotel is offering delegates a savings of over 35 per cent on the regular hotel room rates.

Prices for events have risen a small amount. See separate box for full details of admission.

Speakers confirmed as of this issue include:

Tuesday

— Gus Lamore, Airport Properties Dept., Toronto International Airport "Safety".

— Bell Canada, "Communications Within the Industry".

— David Pitt, Department of Horticulture, University of Maryland, "Combatting the Energy Crisis".

Wednesday

— Bob King, Genstar Chemical, "How to Sell Fertilizers including Composition and Economic Trends".



Theme address — 1980 Congress



Trade exhibit at 1980 Congress

Thursday

— William Flemer III, Princeton Nurseries, N.J., "Supply of Nursery Stock in the '80s".

— Ed Vander Kloet, Christian Labour Association, Toronto, "Employers and Employees — Adversaries or Associates?"

— Robert F. Lederer, American Association of Nurserymen, Washington, D.C.

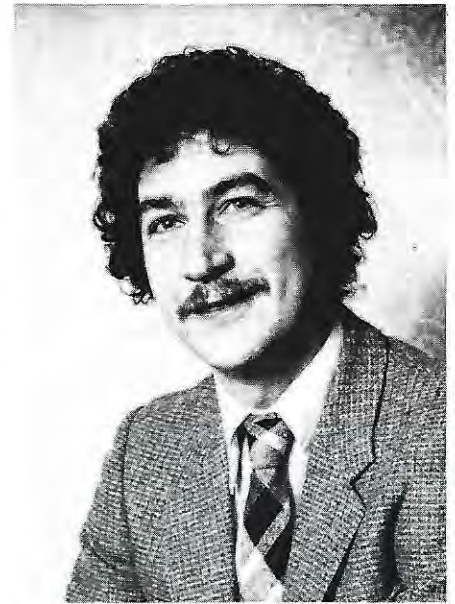
Please note the change in show hours for this year. Tuesday, the trade show will be open from 9:00 a.m. - 5:30 p.m.; Wednesday from 10:00 a.m. - 8:00 p.m.; and Thursday from 9:00 a.m. - 3:00 p.m. The late Wednesday night closing is planned to enable you to bring those key employees that you lay off during the winter months to see the show. Make use of this association membership benefit.

For the last three years, \$50 sums have been given away as cash barrel prizes, six times a day. We have a different plan this year. A minimum of three portable black and white TV sets will be handed out each day plus one grand prize of a colour TV to the pre-registration draw winner. There will be a special prize as well for those attending Wednesday



1981 Congress Show Manager, Bob Cheesman
evening.

In response to requests for longer exhibit viewing time, the seminars will conclude at: 12 noon of Tuesday, 3:30 p.m. on Wednesday, and 12 noon on Thursday. This should allow you time to view all the exhibits as well as attend all the



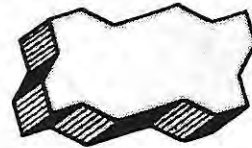
1981 Congress Chairman, Jim McCracken

seminars.

The theme of this year's event is "Communication Within the Industry". Mark the date down. Come and talk to the many exhibitors and participate in the seminars planned for your benefit.

(Continued on page 27)

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Schedule of Rates for Delegates

(Continued from page 25)

Advance Registration — before Dec. 1/80

Members \$70

Non-members \$85

Rate includes admittance to Trade Show, Seminar for all three days, Annual Meeting Luncheon, Keynote Breakfast, Theme Luncheon, Banquet and Dance, plus a chance at the Pre-registration draw.

Registration cards will be forwarded by mail in the near future.

Registration after Dec. 1 and at Congress

Members \$80

Non-members \$95

Rate includes all meal functions listed above but does not include a chance for the Pre-registration draw.

Daily Registration

All attendees \$20

Rate includes admittance to Trade Show and Seminars for the day.

Trade Show — \$6

With an exhibitor's trade pass, the cost of admittance is reduced to \$3.

Students

Programme (includes Trade Show) \$4

Theme Luncheon & Programme \$9.50

Ladies Programme

Prior to Dec. 1/80 \$50

After Dec. 1/80 \$60

Rate includes two luncheons, Keynote Breakfast, Banquet and Dance.

Annual Meeting Luncheon \$10

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Schedule of Events

	Tuesday	Wednesday	Thursday
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8:30	exhibits open	Keynote Breakfast	exhibits open
8:45	official opening	—	—
9:00	seminar session	—	seminar session
10:00	—	exhibits open	—
10:15	—	seminar session	—
12:00	Annual Meeting Luncheon	lunch on your own	Theme Luncheon
1:00	Annual Meeting	—	—
2:00	—	seminar session	—
3:00	conclusion of Meeting	—	exhibits close
3:30	—	seminar concludes	—
5:30	exhibits close	—	—
6:30	—	—	cocktails - Hotel Toronto
7:30	—	—	Banquet - Hotel Toronto
8:00	—	exhibits close	—
8:30	Get Acquainted Party	—	—

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question: I have recently joined **Landscape Ontario**, and would like to enroll in the Group Insurance pro-

gram. I have a heart problem for which I am currently taking medication. If I should die from a heart attack, will the Life Insurance be paid? Will I have to pass a medical?

answer: The **Landscape Ontario** plan does not require you to provide any evidence of health whatsoever.

There would be no problem for you to join the plan and the Life Insurance would be paid if you died as a result of a heart attack.

question: Are eyeglasses covered under the **Landscape Ontario** Health Plan?

answer: At this time, Visioncare is not included in the health plan. However, if a majority of the members would like to have Visioncare added, we would arrange for this to be done.

question: I am currently expanding my business, and therefore my financial liabilities. I have enough Life Insurance privately and with the group plan to cover these expenses should something happen to me, but would like to pick up some addi-

tional coverage at the lowest cost possible. Can this be done through the Group Plan?

answer: There are two ways of approaching this. The first would be for you to meet with one of our representatives to review your current coverage. The individual market is constantly reviewing rates, and it is likely that we can arrange more coverage for the same premium you're currently paying. Secondly, we are currently working with the **Landscape Ontario** Insurance Committee on a new Group Optional Life product. This is a Group Term Insurance plan with very reasonable rates, and we hope to be distributing brochures outlining this product in the early fall. At any rate, give us a call, or mention your problem to our representative at your next Chapter Meeting, and I'm sure we'll be able to help!

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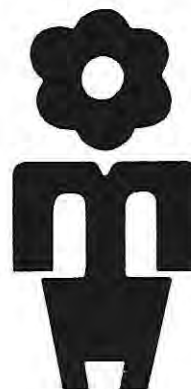
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Press releases inform

Dear Editor:

Thank you for sending us the "Green Survival" press releases. It gave us a little extra information on a concept far too underrated in housing today, the passive solar advantages of landscaping. As a matter of fact, we will be having an issue devoted to energy saving in September and one of the articles will deal with passive solar techniques. Landscaping will be one of them. Thank you again.

Amanda Edwards
Assoc. Editor
Canadian Workshop magazine

Lauds L.O. May issue

We were so pleased with the space and picture that you placed in the May issue of Landscape Ontario for the Civic Garden Centre. Although we can't tell what results this will bring until fall when the trade becomes a little less hectic, we do anticipate being able to show the public the marvelous work being done by them in the Toronto area.

It was a super issue and we were very proud to be part of it.

Mrs. E.F. Schenk
Program Consultant
Edwards Gardens

Appreciates study aid

Please excuse my delay in thanking you very much for sending the cheque for \$2000. This support by the nursery/landscape industry enables us to undertake the root regeneration/transplanting study.

In these times of funding restraints, money from other than University sources is increasingly more important for the initiation of new projects as well as maintaining an existing research program.

Glen P. Lumis
Associate Professor
Ontario Agricultural College

Tapes, slides enjoyed

Thank you for the use of your tapes and slides. They were much enjoyed by the members of the Oro Junior Garden Club.

We wish you every success in your efforts to conserve and beautify Ontario's landscape.

F. Craig
Oro Horticultural Society

(Continued on page 36)

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Trees & Shrubs

The Ontario Ministry of Natural Resources has recently released a publication entitled "Trees and Shrubs for the Improvement and Rehabilitation of Pits and Quarries in Ontario" by S.B. Lowe. This detailed, 71 page manual is the result of a study undertaken by Sarah B. Lowe of the University of Guelph Arboretum in which first hand observations were made in

1978 from a sample of 85 licensed operations with tree and shrub plantings. The manual is especially suitable to pit and quarry operators in terms of planting trees and shrubs for both screening and rehabilitation purposes. Various aspects are covered including site planning, site preparation, planting design, planting and maintenance techniques and selection of tree and shrub species. Available at \$2.00 per copy from: Public Service Centre, Ministry of Natural Resources, Rm. 1640, Whitney Block, Toronto, Ontario M7A 1W3.

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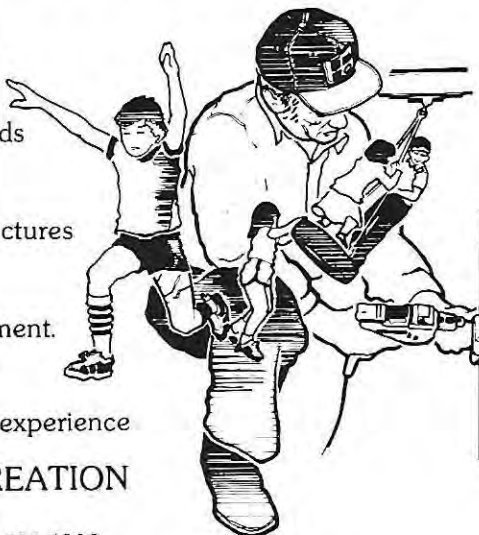
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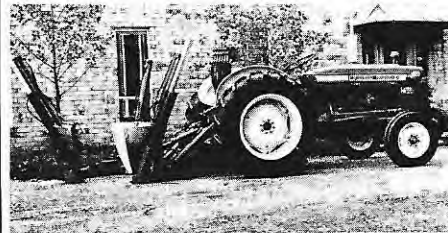
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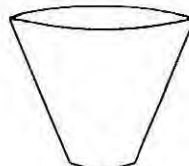
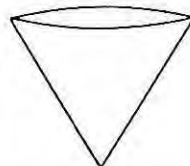
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INDUSTRY ACTIVITIES

Plant Products names service staff

Plant Products Co. Ltd. of Bramalea announces three new appointments in customer service and product development.

Claire Geddes has been named Technical Co-ordinator with responsibilities for overseeing all technical progress and new product development, especially in the fields of pesticides and fertilizers. She joined Plant Products in Jan-

uary following the completion of a B.Sc.Ag. degree from the University of Guelph.

Betty-Lou Aihoshi has become a Customer Service Representative. She has been with Plant Products since October, 1979. Betty-Lou works out of the head office in Bramalea where she is responsible for solving problems regarding customer accounts. She also has some

responsibility for co-ordinating advertising and promotional programs undertaken by the company.

Dave Gingrich, a recent graduate of the University of Guelph, has recently been named as a Sales Representative. He holds his B.Sc.Ag., majoring in Horticultural Science. Dave will handle grower products working out of St. Catharines.

(Continued from page 30)

Follow the Rules of the Game

Twenty years ago, landscaping, when thought of at all, was pretty much a hit or miss proposition. The general public was not aware of the trade at all and I remember the term "glorified farmers" used in my presence during a discussion on the topic. But over the years, attitudes have changed, perhaps due to some extent to the fact that the landscape trades became organized. Landscape Ontario is now a well-known association and the general public, building trades and government institutions recognize its importance. The annual trade show, now called the Landscape Ontario Congress is a major event and will continue to present the industry favourably in the public eye.

As Landscape Supervisor with the Ministry of Transportation and Communications in the Hamilton area for the last 14 years, I have seen quite a few changes take place in our methods. I like to think that we have improved our work over the years. Landscaping our highways is not always simple and some of the conditions under which our trees are expected to survive are far from ideal. In the past few years it has become government policy (due partially to the efforts of Landscape Ontario) to have private contractors handle some of our landscaping jobs. The term privatization was coined to describe the theory that private industry would be able to do a better job for less money. While this might be true in some circumstances, it can also create a whole new set of problems. This past spring, I listened to Frank Ker-shaw discuss some of these problems. He made particular reference

to those of morale. The permanent work crews felt overlooked when the best jobs went to outside firms. Often, this does happen.

However, there is one problem that was not mentioned. In the past two years, I have dealt with several private landscaping contractors, all of whom were members of Landscape Ontario. It is not my intention to question the skill of those involved, but I do question their ability to read instructions. Over the years, the Ministry of Transportation and Communications (M.T.C.) has developed a set of guidelines suitable for tree planting under the sometimes impossible conditions which exist along our highways. These guidelines were compiled from the experience gained over many years and while there still may be room for improvement, they do cover most aspects of tree planting. This specification covers everything from the size of the root balls and planting hole, to the mixing of topsoil, amount of peatmoss to be used, fertilizer, stakes, wood chips, mulch material, plant material, even the warranty and maintenance.

Before a bid can be made on any highway contract, a meeting is held at the M.T.C. office in Downsview to explain those "specs" to interested bidders. Only those firms attending these meetings are allowed to bid on the upcoming contract. Once it is awarded, the contractor is called to a second meeting to discuss the job, point by point. One would expect that the contractor would, by this time, have a clear idea of what he was expected to do. However, as I said before, some just do not read the instructions. These are all

members of Landscape Ontario, dedicated to provide a consistently high quality of service to their customers. As one of those customers, it does not look that way. If there were just a few simple misunderstandings, the problem would be acceptable. Unfortunately, the general attitude seems to be, "Don't tell me how to plant trees, I've been in this business a long time".

When a contractor accepts a job, he accepts the terms and conditions that go along with it. If a contractor hired a new man who insisted on doing things his own way, how long would he stay on the payroll? When a member does not agree with some aspect of the specification, it is up to him to prove the point to the Ministry. Otherwise, abide by the rules.

Landscaping has made great advances in the past twenty years and there are even better days ahead. Tree planting for the M.T.C. will, of course, continue for quite some time. But if you are planning to bid on one of these jobs, plan also to carry out the instructions that go along with it. If awarded a job, fulfill your responsibility to your association and accept the terms. Let us hope there are many pleasant working experiences ahead for the Ministry and the members of Landscape Ontario.

Ted Weerdenburg
Landscape Supervisor
Ministry of Transportation and
Communication

Editor's Note: We welcome your comments.

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Use of Herbicide-Impregnated String for Weed Control in Nursery Containers

By Calvin Chong

Department of Plant Science
Madconald Campus of McGill University
Ste. Anne de Bellevue, Quebec

Weed control is a major problem in the production of container-grown nursery plants. Problems concerned with herbicide application methods, rates and possible phytotoxicity to nursery plants are more complex in container production than with field-grown plants. A method of application using slow-release herbicide-impregnated strings for controlling weeds in nursery containers seems to deserve some consideration. Using special adhesives and binders, almost any herbicide or herbicide mixture can be fixed or impregnated into strings which release the chemicals over a period of time.¹

Researchers at Harrow indicated that herbicide-impregnated strings provided safe and effective weed control in two species of field-grown *Prunus* seedlings. This preliminary study examined the use of four slow-release herbicide-impregnated treatments applied to nursery containers in the fall.

Herbicide strings (Mag-X-Strings)¹ impregnated with the following (active ingredients expressed as grams per 30 metre of single strand length) were used in this study: simazine + diuron (1.5 + 1.0); oryzalin (3.4); simazine + terbacil (1.6 + 1.0); pronamide + terbacil (1.5 + 1.2). Herbicide applications of 1, 2 and 4 strands, each 30 cm in length, were applied on the soil surface of 9-litre (2 gallon) containers containing a 3-yr-old nursery plant of white spruce, red pine or American arborvitae on September 26, 1976. These plants had been potted and grown in a 1:1:1 mixture of soil:sand:peat medium since the end of May, 1976. For each species and each herbicide application there were five single-plant replicates and corresponding untreated controls.

Application

Treatments within species were randomly assigned within each replication. String(s) were placed in

a circle mid-way between the outer edge and center of each container and secured by inverted U-shaped pieces of wire sunk into the soil medium. Containers were thoroughly watered immediately after application. The plants were kept outdoors until the end of November, then placed in an unheated polyhouse until mid-April, 1977. During the 1977 growing season, weeds were removed from each pot, identified and counted on May 26, June 27, August 3 and September 15. A phytotoxicity rating of each crop plant, based on a visual scale 0(no injury) to 100(dead), was made on June 27.

Plants of both red pine and white spruce treated with all applications of the herbicide combination simazine + terbacil and pronamide + terbacil, were dead when removed from overwinter storage, while American arborvitae appeared to have some tolerance. In contrast, simazine + diuron and oryzalin alone were non-phytotoxic, except for the 4-strand application of simazine + diuron which appeared to be slightly toxic only to American arborvitae.

Weed counts in containers treated with simazine + diuron or oryzalin alone are expressed as averages of the 3 species (Table 1). Applications of simazine + diuron resulted in equally effective weed control throughout the entire growing season with oryzalin appearing to be less effective. Because of the limited number of weeds per container, it was not feasible to separate the data in the treated containers into grass and broadleaf, and annual and perennial species. However, the common weed species and their percentage occurrence in control containers during the period of this study were: annual bluegrass (*Poa annua* L.), 21.8; common groundsel (*Senecio vulgaris* L.), 17.6; purslane speedwell (*Veronica peregrina* L.), 13.7; creeping butter-

cup (*Ranunculus repens* L.), 9.6; quackgrass (*Agropyron repens* (L.) Beauv.), 8.5; white clover (*Trifolium repens* L.), 6.2; bird vetch (*Vicia cracca* L.), 4.3; common chickweed (*Stellaria media* (L.) Cyrillo), 2.6; portulaca (*Portulaca oleracea* L.), 1.5; dandelion (*Taraxacum officinale* Weber), 1.3; shepherd's-purse (*Capsella bursa-pastoris* (L.) Medic), 1.2; plantain (*Plantago major* L.), 1.0; others, 10.7.

The results of this study are limited to 3-yr-old plants of three conifer species that tolerate relatively high rates of some of the herbicides used. Therefore, it is emphasized that data presented here may only serve as 1) preliminary information for determining rates of applications and chemicals to use for further studies, and 2) to draw attention to this method of herbicide application. More critical and detailed investigations are required before this method can be recommended. For instance, a comparison with several rates of granular and/or spray treatments including repeat applications is needed to evaluate the slow release characteristics of the string method, and to determine its efficacy and phytotoxic effects to both nursery crops and weed species in comparison with conventional methods.



¹Supplied by Chempara Corporation
P.O. Box 1201, Station "B",
Mississauga, Ontario, Canada.

Table 1. Influence of application rate of two herbicide-impregnated treatments on number of weeds in 9-litre (2-gallon) containers.

Date of Count	Application rate (No. of 30-cm strands)							
	Simazine + Diuron				Oryzalin			
(1977)	0	1	2	4	0	1	2	4
May 26	9.5	0.1	0.1	0.4	9.0	2.0	1.3	1.0
June 27	4.8	0.0	0.1	0.0	4.6	1.7	0.6	0.5
August 3	2.4	0.1	0.1	0.0	1.1	0.0	0.3	0.3
September 15	0.9	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Total	17.6 ± 1.85^2	0.3 ± 0.36	0.3 ± 0.06	0.4 ± 0.27	14.7 ± 1.90	3.8 ± 0.12	2.2 ± 1.03	1.9 ± 0.24

²Standard Error. Each datum represents number of weeds per container averaged over three species.

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18th Graduating Class of Ontario Diploma in Horticulture Announced

This summer members of the 18th Ontario Diploma in Horticulture graduating class received their diplomas. The program originally was established in response to the allied horticultural sector's need for an in-service training opportunity. Since inception of the program in 1960, over 340 people have graduated through correspondence study.

Nine areas of specialization are offered in the Ontario Diploma in Horticulture program. These include Nursery Operations, Landscape Contracting, Landscape Design, Landscape Maintenance, Commercial Floriculture, Turf Management, General Horticulture, Park Horticulture and Park Management. For several years, students concentrated in Park Management but due to recent expansion of the industry and a wider range of job options, there is a shift towards General Horticulture. The majority of these people are employed in the horticultural industry, others plan to work in the field and a few are hobbyists who want to learn more about horticulture in general.

Most of the 1980 graduates are Ontario residents, but diplomas were awarded to several out-of-province students who live in British Columbia, Alberta, Saskatchewan, Manitoba, Quebec, Michigan and Massachusetts.

Landscape Ontario continues to support the Ontario Diploma in Horticulture program. The Association is the donor of several awards to Ontario students who have attained top academic standing in first, second and third year studies of the Landscape and General Horticulture, and Nursery Operations specializations.

This year's recipients of the award for outstanding students in either Landscape Contracting, Landscape Design, Landscape Maintenance or General Horticulture are Mr. Ross Hugli of Mississauga and Mrs. Sharon Behmann of Puslinch. Mr. Hugli is employed in a Pembroke garden centre during the summer and attends Humber College for the rest of the year. Mrs. Behmann lives on a rural property and is employed as a lab technician but plans to enter horticulture on a full-time basis in the future.

The winners of Landscape Ontario's Nursery Operations awards are Mr. Robert Bezaire, a resident of

Amherstburg, and a nurseryman with Maiden Tree Farms, and Mr. James Thomson of Niagara Falls. Mr. Thomson is a garden centre operator in the area and has had considerable experience with Leno Mori and Bakker's.

The Canadian Nursery Trades Association offers scholarships to first and second year students who have the highest academic achievement in their year. The scholarships have no restrictions regarding the area of specialization and students residing anywhere in Canada are considered. Mr. Paul Baetz of Strathroy, Ontario who is currently employed part-time at a garden centre was the recipient of the first-year scholarship. The second-year winner was Mr. Arthur Beauregard of Regina, Sask. Mr. Beauregard is employed with the Wascana Centre Authority.

Correspondence Students Receive Diplomas

This summer, at the University of Guelph, diplomas were awarded to the 18th graduating class of Ontario Diploma in Horticulture correspondence students. Shown from left to right are William Knights, of Scarborough; Jim Thomson, of Niagara Falls; David Danton, from Fisherville; Tom Sudak of Ottawa; Sam Lucido, from Michigan; Fred Spoelstra, of Hamilton; Joyce Kydd, from Saskatchewan; Sharon Gaudaur, of Trenton; Debbie Wright, from British Columbia; Ronald Toupin, from Quebec; Don Patrick, of Guelph; Barry Kolb, of Kitchener;

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John Therriault, of London; and Dan Daly, of Kitchener. Kneeling are Harold Crawford, co-ordinator of the Ontario Diploma in Horticulture program; Wendy Elrick, student counsellor and promotions officer; and Ted McNinch, chairman of the Independent Study division.





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Home Study Opportunities

For those who cannot attend university, the opportunity to continue one's education for general interest or towards a diploma in horticulture is available through Independent Study, School of Part-Time Studies and Continuing Education, University of Guelph. The correspondence program enables the remote and adult learner, regardless of geographic location or time schedule, to participate in home study.

Sponsored by the Ontario Ministry of Agriculture and Food, over 30 courses in horticulture are offered. These cover landscape design, nursery, greenhouse and turf management, plant propagation and many other topics. Information is presented in a step-by-step fashion, allowing students to learn at their own pace and in-depth coverage is given in a manner comprehensible both to the commercial operator and novice horticulturist.

The total study program for successful completion of each course is forwarded to the student upon registration and remains a part of the student's library. Some courses contain self-marking questions and all diploma courses have written assignments. These are forwarded to Independent Study and are marked and returned with comments to the students.

While correspondence students in the past had only a textbook from which to learn, many courses now have an innovative multimedia format consisting of several colour filmstrips, a small hand viewer, lectures and commentary on cassette tape and printed text material. Each filmstrip contains a number of suitably captioned frames and by means of a relatively inexpensive slide projector adaptor, the filmstrips may be projected onto a screen and viewed as normal slides. In this respect they are useful for in-service training programs.

Currently over 1,800 students are enrolled in one or more horticultural courses. Although the majority of people study individual courses for general interest or to upgrade their qualifications for promotion, some choose to study towards the Ontario Diploma in Horticulture. The nine areas of specialization are: Nursery Operations, Landscape, Contracting, Landscape Design, Landscape Maintenance, Commercial Floriculture, Turf Management, General Horticulture, Park Management and Park Horticulture. A secondary school graduation diploma is not necessary to enroll in the correspondence diploma program if the

applicant has been out of school for at least 12 months and is 19 years of age or older.

For more information, contact Independent Study, University of Guelph, Guelph, Ontario, N1G 2W1.



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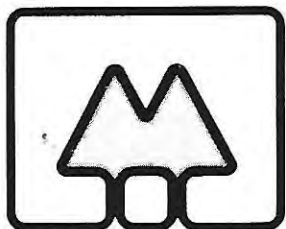
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The Waterloo chapter "Fall Freeze Up" dance will be held on Saturday, Nov. 15 at the Waterloo Motor Inn. For further information and tickets, contact: John Wright, 82 Main Street, Bloomingdale, Ont. (519) 742-8433.

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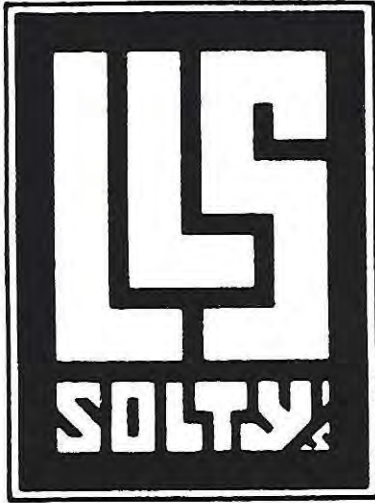


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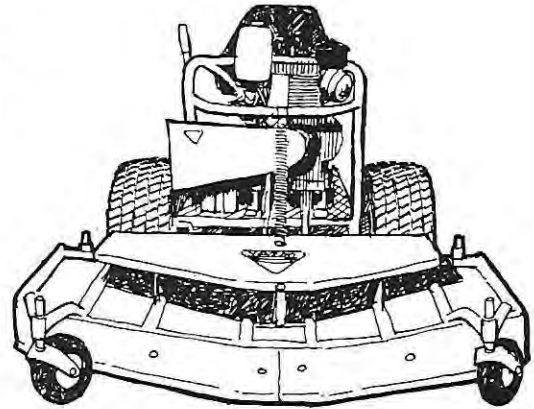
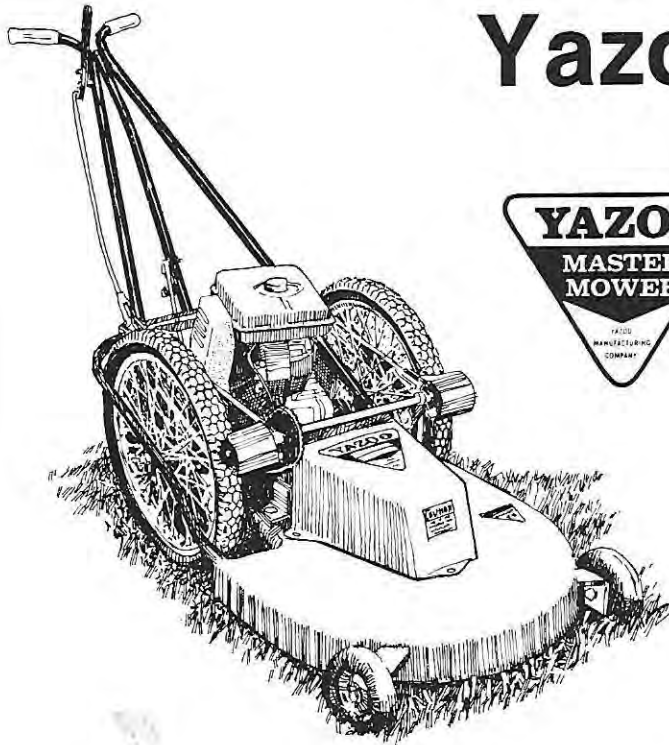
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