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thing you have ever seen or heard about. Research shows that reading is 95% thinking and only 5% eye movement. Yet most of today's speed reading programs spend their time teaching you rapid eye movement (5% of the problem) and ignore the most important part (95%) thinking. In brief, Speed Learning gives you what speed reading can't.

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read. Interesting items taken from Time Magazine, Business Week, Wall Street Journal, Family Circle, N.Y. Times and many others, make the program stimulating, easy and fun . . . and so much more effective.

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gram and owe nothing. See the coupon for low price and convenient credit terms.

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LID 11 W/TT 2/02

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#### SMALLLER COURSES

continued from page 80

over 1,000 of our customers who played 10 or more nine holes with us the year before. If each of the 3,000 or more little courses served that many people, it would amount to a sizeable part of the golf industry.

Some of you many have lived through the "old" depression of the '30s and '40s when many courses, both big and little, closed. Play sold for 25 cents for 18 holes or 50 cents for all day. A family membership for a year could be had for four bags of fertilizer for the course. Even in those hard times, some 5,000 courses weathered the 'ide.

As the financial depression of the '80s worsens, golfers used to playing on large courses and paying exorbitant greens fees, will be looking to the little courses to play. A promising young executive living the good life as a family country club member suddenly joines the ranks of the unemployed. One of the first moves to economize is to cancel the country club membership. But give up golf? No. They will be using the smaller courses.

Can the little course survive the worst world-wide financial collapse in history? Wise managers say it can, but only after careful evaluation of the following points:

1. Reevaluate every employee from the front office to the garbage collector. Each has an important job to do efficiently.

2. Check those important records on a percentage basis of income to find the weak spots.

3. Evaluate maintenance practices with the goal of a healthier, more attractive turf. It wins customers.

4. Test sales programs. How can the weakest be improved? Thinking is hard work, but it can earn more money in the longrun.

5. Join golf owners associations for an exchange of ideas. Nobody has all the answers, but if you join your local association, you may learn some valuable things. James L. Holmes, now of Brian, TX, preached the following as a traveling agronomist with the USGA. "Charge more and you will get more customers." Our little course has done that for 20 years and it works. WTT



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Circle No. 109 on Reader Inquiry Card MARCH 1983/WEEDS TREES & TURF 83

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#### LANDSCAPE UPDATE from page 14

Winner for Small Residential was Live Oak Landscape, Modesto the Welch residence, Modesto.

An Achievement Award was presented to Valley Landscaping, Bakersfield for the Costa residence, Bakersfield.

Medium Residential was won by G.N. Landscaping, Monterey Park, for Highland Beauty, Rowland Heights. Achievement Award went to Horie Landscape, Vista for the Ishino residence, San Diego.

Large Residential was received by Heritage Landscape, Inc., Granada Hills, for the Jones residence, Chatsworth. Achievement Award was given to Yamasaki Nursery, Auburn for Rennecke Garden, Fair Oaks.

For Custom Residential, the winner was Creative Landscaping Concepts, Granada Hills, for the Peisner residence, Chatsworth.

The Residential Estate award was given to Zierden Waterfalls, Sacramento for the Ackers residence, Rancho Murieta. The Achievement Award was given to Carl's Landscaping, Inc., Laguna Hills, for Sutton residence, Laguna Hills.

The Small Renovation Award was presented to Blomquist & Sons, North Hollywood, for A. Blomquist residence, Chatsworth. Achievement Award was given to Richard Cohen Landscape and Construction, Inc., Mission Viejo, for the Windham residence, Laguna Beach.

The Large Renovation award was won by Creative Gardens, Inc., Los Angeles, for the Meyer residence, Sherman Oaks. The Achievement Award honored Landscape Management Associates, Corte Madera, for the Badham residence, Kentfield.

First Place and Achievement Awards in Model Homes



New Aquatic Weed Harvester removes both floating and submerged weeds to restore natural ecological balance and preserve fish habitat. Two independently controlled paddle wheels resist clogging even in heavy golf pond weed beds unsurpassed maneuverability even around marina docks. Floats in inches of water, permitting cutting close to shore. Rotating vertical side feeders direct weeds into automatic conveyor to keep

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Circle No. 140 on Reader Inquiry Card — Circle No. 117 on Reader Inquiry Card went to Art Torres Landscaping Inc., Encinitas, for the Cantebria models, Encinitas and the Diamante Blanca models, San Diego.

The Small Commercial Living/Industrial award was given to Makoto Landscape Co., Oceanside, for Escondido professional Center, Escondido. The Achievement Award was given to McGuire Earth Works, Orangevale, for California Liquid Gas Corp., Sacramento.

The Medium Commercial Living/Industrial Award was won by Leek Landscaping, Fair Oaks, for River Rock Plaza, Folsom. The Achievement Award was given to Truxell & Valentino Landscape Development, Sanger, for Bullard & Marks Professional Center, Fresno.

The Large Commercial Living/Industrial award was given to Anthony Bertotti Landscaping, Inc., Novato, for the Harvest Inn, St. Helena. Heath Landscaping, Carmichael, won the Achievement Award for Water Tower Plaza in Sacramento.

The Public Works award was earned by Fries Landscape Co., Escalon, for March Lane median strip, Stockton. The Achievement Award was won by American Landscape, Inc., Canoga Park, for First Street & Los Angeles Avenue median island, Simi Valley.

The commercial Irrigation Award went to Valley Landscaping, Bakersfield, for McDonalds White Lande, Bakersfield.

The Condominium/Townhouse category was won by Yamasaki Nursery, Auburn, for Southridge Townhomes, Auburn. The Achievement Award went to Heritage Landscape, Inc., Cranada Hills for Palm Village Townhomes, Burbank.

Continued on page 86



#### Circle No. 117 on Reader Inquiry Card

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The toughest battle on the golf course doesn't always involve the players. Sometimes it's the golf course itself versus weeds. Fortunately, turf managers and superintendents have an ally—Balan® preemergence herbicide.

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larity continues to grow each year. Golf course management isn't complete without economical, effec tive weedgrass control. And with Balan, that's par for the course.



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#### LANDSCAPE UPDATE from page 85

Cagwin & Dorward of San Rafael won the interiorscaping award for Santa Rosa Plaza, Santa Rosa. The Achievement Award went to VanderGeest Landscape, Inc., Reseda, for Mid Valley Racquetball Club, Pool Area, Reseda.

The Small Residential Landscape Maintenance award was given to Stay-Green, Inc., North Hollywood, for the Nesen residence, Westlake Village.

The Large Residential Landscape Maintenance award was also won by Stay-Green, Inc., North Hollywood, for the Cooperman residence, Bel Air.

The Small Commercial Landscape Maintenance award was given to Lancaster Enterprises, Costa Mesa, for Countryside Condominiums, Orange. The Achievement award went to Cagwin & Dorward, San Rafael, for Golf Court, Santa Rosa.

The Medium Commercial Landscape Maintenance award went to Mission Landscape Services, Inc., Costa Mesa, for Stonecreek Plaza, Irvine. The Achievement Award was given to Brooker Associates, Inc., Placentia, for Parkview Terrace, Long Beach.

The Large Commercial Landscape Maintenance award was presented to Stay-Green, Inc., North Hollywood, for Security Pacific National Bank, Los Angeles. The Achievement Award went to Brooker Associates, Inc., of Placentia, for Crown Pointe, Long Beach.

Annual Trophy Awards recognize the professional excellence of CLCA's 1200 members statewide. Entries were judged on aesthetic appeal, utility value, quality workmanship and design. CLCA is the nation's oldest and largest organization of professional state-licensed contractors.

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# **VEGETATION MANAGEMENT**

#### By Balakrishna Rao, Ph.D., and Thomas P. Mog, Ph.D., Davey Tree Expert Co.

**Q:** We are thinking of using Roundup for renovation purposes. We are concerned about its effect of drifting or leaching on nearby landscape plants. Will it cause injury? (North Carolina)

A: Roundup (glyphosate) is a nonselective, broadspectrum, systemic herbicide. The isopropylamine salt rapidly degrades in the soil, but is quite resistant to decomposition in higher plants. In recent years, people have used Roundup for lawn renovation purposes and weed control under trees. Roundup is a very useful tool when used as a directed spray.

Often, contaminated desirable plants or areas can be saved from damage by heavy watering to wash off the chemical. This should be done immediately or within three to four hours after exposure. The action of the herbicide will be less in the soil than on the plant. Reports from Minnesota indicate that Roundup is damaging to the foliage and young bark of deciduous plants, but somewhat less injurious to the evergreen species. Depending on the amount of chemical reaching the plant, the symptoms may appear immediately or by the fifth week after exposure.

Symptoms include chlorosis, defoliation, twig dieback, malformed growth and death. In general, the deciduous plants were more sensitive to Roundup than the evergreen species. To avoid these problems, keep Roundup away from desirable plants.

**Q:** What is the best way to clean clothing contaminated by pesticides? (New York)

A: Pesticide-contaminated clothing should be washed daily and should not be mixed with other uncontaminated laundry. Contaminated clothing should be either stored in a plastic bag until washed or put directly into the washing machine soon after removal.

Use hot water (140°F) at full level and the recommended amount of heavy-duty phosphate-based detergent. Dry the clothing in an automatic dryer for thirty minutes at the regular fabric setting. Make sure to remove any leftover pesticide from the washer by running it through all cycles using detergent, but without the clothes.

Reports suggest that this procedure should remove 99.8% of the pesticide from clothing.

**Q:** What kind of chemicals would you recommend for renovating an old lawn? I do not like the type of grass species we have in our lawn as it is very susceptible to Fusarium blight disease. (Michigan)

A: Diseases such as Fusarium blight and Stripe smut are difficult to eliminate once they are established in a lawn. However, with the proper cultural and chemical treatments for Fusarium blight management, the disease incidence can be minimized.

It is also important to either reduce or remove stress factors, particularly moisture stress, which are conducive to the disease development. If the management practice fails to provide satisfactory turfgrass response and quality, then the best method would be to consider total renovation, which would involve killing the existing vegetation and re-establishing with resistant grass cultivars. 'Adelphi,' 'Majestic,' 'Parade,' 'Touchdown,' 'Brunswick,' 'Baron' and 'Cheri' Kentucky bluegrass cultivars have shown better resistance to Fusarium blight. Contact your local extension personnel for cultivar recommendations for Michigan.

The unwanted vegetation can be best removed by the combination of chemical treatment followed by tilling. Re-establishing new grass cultivars should be timed so that seeding can be done between September 1 and September 15.

Herbicides such as Roundup, Amitrol or Amitrol-T plus dalapon, and Amitrol-T alone are labelled for lawn renovation. In recent years, Roundup is more commonly used for lawn renovation because of its short soil residual which allows seeding and sodding seven days after application.

Roundup is a water soluble, nonselective herbicide that generally controls most green vegetation and causes discoloration in about seven days. A combination of Roundup treatment and tilling gives good control of most grasses. A repeat application may be necessary for better control of rhizomatous perennial grasses.

**Q:** Our birch tree has several bumps on the stems. When I pressed one, sap came out. I also found some small holes on the stems, and the tree is defoliating *Continued on page 104* 





Balakrishna Rao is plant pathologist and Thomas Mog is pest management specialist for Davey Tree Expert Co., Kent, OH.

Questions should be mailed to Vegetation Management, Weeds Trees & Turf, 7500 Old Oak Blvd., Middleburg Heights, Ohio 44130. Please allow 2-3 months for an answer to appear in the magazine.



#### Golf Green Construction Is Precise Business

In the article on "Soilless Greens" in the December 1982 issue, golf course architect Ron Fream does a good job of presenting generally some of the problems and solutions involved in the construction of golf course greens.

To avoid creating situations which can be disastrous where the amateur in greens construction (even though he might be a landscape architect or golf course superintendent) tries to use Architect Fream's article for constructing greens on a new course or reconstructing greens on an old course, I hasten to elaborate on his article and offer this constructive criticism.

One of the problems of this profession is that "everyone's an expert," including many golf course superintendents and nurserymen, as well as members of green committees at country clubs. "I read an article, and this is how you do it!"

First of all, no one should attempt to use a seedbed mixture that has not been tested by the United States Golf Association - Green Section's approved testing laboratory. The address of this laboratory can be obtained through the U.S.G.A. office at Far Hills, New Jersey. These tests will indicate the porosity-capilarity relationship of the proposed mixture, the moisture retention of the mixture, the bulk density, and other factors necessary for the scientific decisions in making a good seedbed mixture. Unfortunately, this recommendation was left out of Architect Fream's article.

There are some pitfalls to be avoided in greens construction work which were not mentioned in Fream's article. possibly for lack of space. For example, the use of the sand he recommends could result in percolation rates of from 15 inches to 40 inches per hour, which is considerably beyond the recommendations of the U.S.G.A. calling for a minimum of 3 inches per hour and a maximum of 10 inches per hour for most greens. Loading the sand with additional organic material, such as going from the 20% normally recommended by the U.S.G.A. Green Section to the 30% indicated in this article, might slow down the percolation rate but possibly at the expense of increased danger of disease due to the high organic content of the green. And when the organic material eventually "burns out" by decomposition, the green might be left with an exceptionally high percolation rate

High percolation rates are often very acceptable in the eastern part of the United States or along the gulf coast where humidity is high. Another factor to be considered is the wind velocity. With high humidity and low wind velocity, such as found often in the southeastern and middle Atlantic states, the rate of moisture removal from the seedbed by evaporation is greatly reduced. But in the midwest and western parts of the United States where humidities are lower and wind velocities are higher, the use of sand and organic material only often results in an excessive percolation rate and can mean very drouthy greens, unless excessive maintenance costs are used in syringing, watering, and fertilizing. Both money and water are getting to be scarcer these days, and labor isn't getting cheaper.

So, while greens with percolation rates of 10 inches to 30 inches per hour based on pure sand and organic material,

Continued on page 94

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