

These Pennsylvania lawn care operators were among those who took the time to visit Washington, D.C. for "Day on the Hill." From left to right are Larry Ellmaker; Neal DeAngelo; Mike Kravitsky, III; Doug Loon, assistant to Sen. Arlen Specter; Mark Phipps; David White of Coron Corp.; and Ken Clemmer.

LEGISLATION

LCOs lobby in D.C. for standardization

WASHINGTON — The Professional Lawn Care Association of America (PLCAA) came here in March to make a stand. On its agenda was national certification and training of pesticide applicators, and affirming jurisdiction of the government's major pesticide-use law.

About 200 lawn care and pest control operators and product manufacturers were here to lobby for responsible pesticide regulations, during what could be the green industry's most important legislative year ever.

PLCAA believes certification and training amendments are keys to the re-authorization of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). That re-authorization is expected later this summer.

In Casey v. Wisconsin,

EPA official envisions stricter laws in future

WASHINGTON — Victor Kimm has told members of two pesticide groups that there exists an "increased responsiveness" by lawmakers to pass stricter laws governing pesticide use.

Kimm is an EPA deputy assistant administrator for pesticides and toxic substances. He spoke to members of the Professional Lawn Care Association of America and the National Pest Control Association during an annual "Day on the Hill" presentation here.

"In many instances," said Kimm, "such legislation is more stringent than federal requirements.

"I think that change is a function of and related to the attitude of the citizens." Kimm added that he has seen "increased sensitivity, questioning and concerns" over pesticide-related issues. "Most legislation in the environmental area allows for increased stringency at the state and local level," said Kimm. "We're likely to see that pattern continue."

Kimm also promised that industry would see more testing of pesticides over the next decade, as all pesticides are put through a re-certification process.

Kimm urged LCOs to watch the reregistration process carefully, "because you want to be sure these are open processes."

The EPA, according to Kimm, wants to keep restricted use pesticides "in the hands of the professionals, and is interested in stronger certification and training requirements, areas which the PLCAA and other state lawn care associations have been making strides."

—Terry McIver□

the Supreme Court will judge whether or not local pesticide regulation is preempted by FIFRA (see related story, page 8). "If local governments

"If local governments are allowed to regulate pesticides," said Robert Rosenberg, director of government affairs for the National Pest Control Association, "and the onus of congressional intent is lifted, it's our belief that there will be thousands of local regulations, and they will not be consistent."

Certification and training amendments are improvements the PLCAA has long wanted to see in FIFRA.

"We know how important certification and training are for members," said Tom Delaney, PLCAA's director of government affairs. "We feel the federal government has to come along with some of the safety requirements that we (PLCAA) have.

"They have to beef up their programs...not only for the technicians. Anybody that's commercially applying a pesticide for hire needs to be certified."

Both sides of the issue are winning supporters. According to Delaney, 11 states and the U.S. Attorney General have filed amicus curiae ("friend of the court") briefs, stating their support for local power: Alabama, Hawaii, Illinois, Kansas, Maine, Michigan, Missouri, Nevada, Pennsylvania, Utah and Vermont.

States on record as favoring FIFRA laws governing locally are Oregon, Arkansas, Iowa and Louisiana.

At presstime, California was reportedly also ready to fall in line as being opposed to increased local power. Delaney urges LCOs to encourage legislators in those states to file briefs in favor of FIFRA.

If the high court decides to support local pesticide regulations, there is not much the industry can do. If FIFRA is allowed to continue as local law, LCOs can spend more time running their businesses and less time in court.

—Terry McIver□

PRODUCTS

Atrazine worry prompts recall

WILMINGTON, Del. — Concern over possible atrazine content has caused Du Pont to announce an immediate stop sale and recall of its Benlate 50DF, Benlate 1991 DF and Tersan 1991 DF fungicides sold in the U.S.

Du Pont advises all dealers and distributors to cease sale of these products immediately, and to notify any Benlate and Tersan customers of the recall. Du Pont says any grower, nurseryman, golf course superintendent, horticulturist, university tester or applicator who has these products should return them to the point of purchase and obtain credit.

According to Du Pont, the level of atrazine that may be contained in Benlate and Tersan poses no human health or food safety problems, but could result in injury to plants.

Sale of the products will be withheld until they have been determined to be atrazine-free.

For more information, contact Du Pont at (800) 441-7515.



Dr. Roger Yeary (left) of ChemLawn and Dr. Douglas Linz of the University of Cincinnati report on Chem-Lawn study.

PESTICIDES

ChemLawn's applicators prove healthy

COLUMBUS, Ohio — The ChemLawn Corp. released a study March 7 which shows its applicators are a healthy group.

The study, begun in continued on page 12

STUDY from page 11

1987, assessed the health of 100 specialists who apply pesticides and fertilizers as a part of their jobs. Those studied had been working with pesticides for at least nine years.

"The study answers many concerns that people have about the health effects of long-term exposure to landscape care products that are properly handled and applied," says Dr. Roger Yeary, ChemLawn's vice president of Health, Safety and Environmental Affairs.

"The results speak for themselves. The study showed no long-term adverse health effects attributable to the specialists' work with chemicals."

The findings were released by Dr. Douglas Linz of the Occupational and Environmental Medicine Group of the University of Cincinnati Medical Center, where the study was conducted. Linz had participated in the study.

Workers were reviewed through a standardized occupational work history developed by an industrial hygienist. Physical exams and laboratory evaluations were also performed.

Sought were known or potential adverse health effects from exposure to insecticides, herbicides, fungicides and fertilizers.

The study also showed the group exhibited minor work-related ill effects.

ChemLawn asked for a follow-up examination on 26 specialists who exhibited nerve conduction velocity test results that were initially difficult to interpret because of a lack of a control group.

A later comparison with Cincinnati municipal sewer district workers, completed in 1990, does not show association between job exposure to pesticides and nerve conduction measurements.

ChemLawn will not release detailed information until the Occupational and Environmental Medicine Group publishes its findings in a scientific journal. □



TREES

Experts out on limb to save jumbo tree

MAGNOLIA SPRINGS, Ala. — New concepts in tree care are the keys to saving a 500-year-old jumbo Southern live oak.

Last fall, the 27-foot circumference trunk was girdled by a chainsaw-toting vandal in the wake of a property dispute. The tree (Quercus Virginiana), which is 65 feet tall with a crown spread of 150 feet, faces a life-threatening battle as summer heat approaches.

Initial grafting efforts consisted of 138 small bridge grafts, while supplemental grafts amounted to 65 large bridge grafts. In addition, 32 smaller offspring trees were grafted on the main plant.

"We were trying to graft in the winter—which is unheard of," reports Stan Revis, a Crestview, Fla. forester who is working to save the tree. Revis says that 30 university experts have been solicited for their opinions.

"We're having to take what makes sense and try it," he says.

The grafts are an example. "The bark on this tree is four inches thick. Nobody's tried to graft with bark that thick before."

Pencil-sized live oak twigs were used. Like straws, the scions were lined up with the cambium and inserted within the damaged area to allow the flow of water and nutrients.

A highly fibrous peat product supplied by the Canadian Sphagnum Peat Moss Association was placed around the grafts as a bandage.

Thirty two trees are grafted below and above the stricken area. The potted offspring are bent over with one side grafted below the wound and the other side attached above the gash. Other potted saplings may be grafted onto overhanging limbs.

Scrub oaks under the canopy were removed to avoid robbing the tree of additional nutrients.

"We took a radar sounding to see where the root structure was," recalls Stan Foote of the Committee to Save the Tree. They extended about 40 feet past the crown, and a six-inch layer of peat moss and mulch was placed around the tree.

A tree that's near death will secrete a hormone causing it to produce more seeds to reproduce itself. Therefore, this jumbo tree is likely to have a bumper crop of acorns this year. But acorns can rob a tree of about 15 percent of its nutrients, so Revis would like to limit the tree's acorn production.



An "intensive care unit" was set up around the tree (left) to control temperature and humidity. The actual wound created by a chainsaw is shown above.

He's counting on using water to wet the pollen and soak it right out of the sky. "We have a sprinkler system set up on top of the tree, and when the pollen starts flying we're going to run the sprinkler system 10 minutes every hour for 24 hours a day," he says.

The sprinkler system is a 65-foot telephone pole that's leaned up the tree. Attached is a firehose-like setup that's fed by a 140-foot well.

"The sprinkler head is a way to cool the tree in the heat of the summer," Foote adds.

Also, the heat pump in the 'intensive care unit' will be replaced by an air conditioner to keep the tree cool. "We've got to get the tree through the summer or it's not going to live," Revis cautions.

—James E. Guyette□

ENVIRONMENT Ice storms blister East and Midwest

FAIRPORT, N.Y. and BAT-TLEFIELD, Ind. — Severe ice storms last month ravaged central Indiana and then felled about 100 mature oak and beech trees at Oak Hills Country Club in New York.

Oak Hill, considered one of the top 100 U.S. golf courses and site of the 1989, 1968 and 1956 U.S. Open championships, was expected to open the season on schedule April 18. About 65 of the mature trees fell in wooded areas the public does not visit.

continued on page 14

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ICE from page 12

Still, the damage claimed two trees at the course's notable "Hill of Fame" where one tree dedicated to comedian Bob Hope and another honoring Arnold Palmer, Gary Player and Jack Nicklaus were lost.

The damage severity at first astounded Hahn, but outside help was hired for clean-up and pruning, and normal seasonal staffers were reassigned.

"Mother Nature took a long time to make Oak Hill beautiful. She did a lot of damage in a short period of time," Hahn says.

"It was kind of ironic. In its own way, at first the sight was beautiful: the area had kind of a crystal look. But then there was the damage's ugliness."

As of mid-March, Hahn's crews were "moving along pretty well" as greens, tees and fairways were largely unharmed. Volunteers were also assisting in clearing away debris.

Hahn is no stranger to nature's fickleness. In 1989, just prior to the U.S. Open, Oak Hill was drenched by three inches of rain. And in 1983, the course iced up overnight.

"This was the worst as far as devastation," Hahn notes. "But we'll get it cleaned up and go on from there. You can't dwell on it."

The Indiana ice storm hit a 19-county area in the north central part of the state, taking out "everything smaller than my wrist" says Daniel Skinner, a Fort Wayne landscaper who drove through Battlefield, Ind. afterward.

Areas in the storm's wake have been declared federal disaster areas by Pres. George Bush. Six died and 43 were injured.

"It was as if the trees had been topped out. Limbs were down everywhere." recalls Skinner.

Heavier trees "looked like they'd been cleanly cut," he says. Softer poplars appeared more sheared.

Skinner's Landscape Services clients largely were unaffected by the storm, but Skinner says his company followed the general rule of not touching plants until ice melts.

Steve Goodwin agrees. He is a supervisor, arborist and sales representative for Bartlett Tree, Ft. Wayne.

Goodwin says 99 percent of the trees in the area were likely affected by the ice. Originally about 10 crews from his company were sent into the region around Battlefield, but within two weeks crews were reduced to five or six.

His biggest concern was for homeowners who don't attend to tree repair because damage wasn't immediately visible. Icerelated tree damage, says Goodwin, can lead to disease and insect infestation.

Good win says few stands of trees were left unaffected and ice coatings of an inch or more glazed hardwooods like oak, hickory and hard maple, along with softer trees.

—Jack Simonds□

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EVENTS

MAY

15: North Carolina Turf and Landscape Field Day, N.C. State University Turf Field Center, Raleigh, N.C. Contact: C.H. Peacock, or R.H. White, Box 7620, NCSU, Raleigh, NC 27695-7620; (919) 737-7615.

18-19: Certification testing for landscape contractors, Valencia Community College, Orlando, Fla. Contact: Florida Nursery Growers Assn., 5401 Kirkman Rd., Suite 650, Orlando, FL 32819; (407) 345-8137.

18-21: Intl. Society of Arboriculture, Western Chapter Conference and Trade Show, Modesto, Calif. Contact: Allen Lagarbo, 801 11th St., Modesto, CA 95353; (209) 577-5344.

JUNE

5-6: IPM Workshop, "Incorporating Biological Controls". Contact: The Ball Institute, (708) 231-3600.

6-7: Florida Ornamental Growers Association Seminar and Trade Show, Altamonte Springs, Fla. Contact: Barbara C. Poole, exec. secretary, P.O. Box 7560, Sun City, FL 33586-7560; (904) 463-7666.

12: Lofts Field Day, Lofts Research Farm, Chimney Rock Road, Martinsville, N.J. Contact: Marie Pompei, (908) 560-1590.

19: Lofts Field Day, Lofts Research Farm, Wilmington, Ohio. Contact: David Goodwin, (513) 382-1127.

NGF issues critique of 'Forbes' article

JUPITER, Fla. — National Golf Foundation President/CEO Joseph Beditz has responded to a Forbes magazine article which was critical of NGF growth figures.

According to Beditz, Forbes's Dec. 24, 1990 article, "Extrapolation Madness," erred in its comments on golf industry sales, golf development failures and the growth of demand for the game. According to Beditz:

• No more than 10 to 20 golf courses a year go out of business. That's 0.1 percent.

• Rounds played—not number of golfers—is the primary indicator of demand.

• During the 1980s, the golf industry enjoyed one of its most prosperous decades ever, with sales on average increasing 10 percent per year.

"We have to guard against those who will misinterpret normal adjustments in our industry and its growth cycles,'' says Beditz.

The New York Times followed up on the Forbes article. A Times article noted that, though the need remains in the U.S. for new golf courses, construction of real estate developments that feature golf courses has slowed. According to the Times, "some golf course developers fear that they are going through the same cycle as hotel and office developers—a rush to build followed by a glut and a crash."

The NGF (which predicts 150 to 200 new courses this year) believes that municipalities must pick up the slack by building more public courses, says NGF director of communications Bill Birbaum.

The primary purpose of the NGF, headquartered here, is to encourage the growth of golf in the United States. \Box

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NEWS BRIEFS

LANDSCAPERS INC.-LUDED...Three landscaping companies were listed on Inc. magazine's list of the 500 fastest-growing privately-held companies in the U.S. At No. 254 was Arrowhead Landscaping and Maintenance of Phoenix, Ariz. It was founded in 1983 by Benjamin Snyder and Jeff Meyer. The R. Glass Landscape Company of Roselle, Ill., was listed as No. 373. It was founded in 1981 by Richard Glass. And Clean Cut of Austin, Texas, was No. 449. It was founded in 1985 by Rex Gore and Dennis Dautel.

BRITS ON THE MOVE... There have been two significant changes at Groundsman magazine, the publication of Britain's Institute of Groundsmanship. **Bill Mills**, its esteemed editor since 1981, is stepping down. In an editorial, the IoG called Mills "a self-effacing man who does the rounds of exhibitions, raising his trilby hat to the ladies...a courtesy so rare today that it has become his trademark." In addition, the magazine's offices move to Suite 52, Charing Cross Road, London WC2H 0DH.

FREE MOWER...Steven Malikowski, superintendent at Cape May (N.J.) National Golf Club, won the free use of a Ransomes Greens 3000 mower for one year. Malikowski's name was randomly chosen in a drawing sponsored by Ransomes at the International Golf Course Conference and Show in Las Vegas.

TRAINING TIPS...Our cover story this month is on training. One of the best resources for landscape and horticulture training videos is California Poly-San Luis Obispo, which has a wide variety of videos available for purchase. For a free 20-page catalog, call Vocational Education Productions at (800) 235-4146 from 8 a.m. to 5 p.m. Pacific time.

INDUSTRY SUPPORT WORKS... Iowa's sign-posting regulations for professional pesticide applicators will not be altered this year. The decision came after a February hearing attended by LCOs, golf course superintendents and pest control operators. According to the Iowa Professional Lawn Care Association, written and oral presentations by industry representatives influenced the Department of Agriculture and Land Stewardship to leave the rules as they are, at least for this season.

THE TRUE ABUSERS...Golf course superintendents are working with the EPA on TV ads during major golf tournaments this season. The ads, directed toward homeowner "do-it-yourselfers," suggest pesticide alternatives, and give the phone number of the National Pesticide Telecommunications Networks hotline: (800) 858-7378. The Professional Lawn Care Association of America helped the EPA identify lawn products they might be asked about.

RESEARCH FINDINGS...According to **Dr. Peter Landschoot**, research at Cornell University has shown that some organic amendments suppress dollar spot and brown patch diseases when applied as a topdressing to bentgrass putting greens. Similar results have been obtained by researchers from Michigan State University and the University of Rhode Island for the suppression of necrotic ring spot. "Although we do not understand the exact mechanisms involved," says Penn State's Landschoot, "there is some evidence to suggest that these products stimulate populations of resident antagonists to levels that will suppress some turf diseases." They may also aid in disease control by providing additional nitrogen to the plant.



J. Michael Poellot: superintendents must keep courses environmentally safe, use environmentally safe products.

GOLF Golf courses can add to environment

LAS VEGAS — Golf courses and the environment go hand-in-hand, according to J. Michael Poellot, who spoke on the subject at the International Golf Course Conference and Show here.

"With proper design, construction and maintenance, golf courses cannot only coexist in our increasingly fragile environment, but they can enhance it," said Poellot, president of JMP Golf Design Group in Saratoga, Calif. "Golf courses actually help preserve our precious open space.

"For every 150-acre golf course that turns the area into a lush rolling landscape of trees, turfgrass and wildflowers, there are 5,000 acres of land being paved in concrete or asphalt."

Poellot pointed to the environmentally safe use of pesticides as being one of the primary issues facing the golf industry.

"New technologies and state-ofthe-art methods of design, construction and maintenance have made it possible to insure that almost no chemicals either leach into the groundwater or run off into surface water supplies," he noted.

"In addition to pesticide application, golf course superintendents play a key role in insuring that golf courses are environmentally safe. Without a program that maintains the course to the highest environmental standards, design and construction efforts will be useless."

Peollot concludes his speech by calling for industry standards that will become recognized worldwide as a "certification of acceptable environmentally-sensitive design, construction and maintenance." He said, "It's our responsibility to make golf available and affordable for future generations. And that means coexisting with the environment."



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