Sprinkler Irrigation Conference Held In Denver

Opening with a special session on the energy situation and its implications to the sprinkler irrigation industry, the Sprinkler Irrigation Technical Conference was held in Denver, Colorado on February 24-26, 1974. Site was the new Regency Hotel.

Special sessions were devoted to financing of sprinkler irrigation systems and a panel on drip irrigation. Two general sessions of the conference presented a broad range of subject matter of interest to those in the field of turf and agricultural irrigation.

Registrants heard twenty speakers from all areas of the country—the most representative group to ever appear before the annual meeting which was sponsored by the Sprinkler Irrigation Association.

Other activities for the conference included the winter meetings of the SIA board of directors, the annual breakfast meeting of SIA committees and the association’s annual banquet. A special meeting of the Association was held to vote on a series of amendments proposed to the organization’s By-Laws.

North/South Transition Zone Ready For Bermudagrass

Bermudagrass adapted to lawns in the “transition zone” between South and North could be only a few years away.

John Dunn, University of Missouri-Columbia turf researcher, said several Missouri and Kansas selections “look promising” and could be made available to homeowners in about 5 years. In fact, two winter-hardy varieties have been released by Kansas State University and are in limited use on lawns and golf courses.

Dunn, who calls the “transition zone” (like central Missouri or Kansas) “the toughest place in the country to grow a good lawn,” said research to find winterhardy bermudagrass for this area might be a better idea than trying to develop summer tolerant bluegrass.

Improved bluegrasses have been developed, he said, but they need to be well irrigated in summer to stay green. “Besides,” Dunn added, “serious disease problems may occur on bluegrasses in summer.

“Bermudagrass will tolerate our hot summers and stay green until the first heavy frost. We are looking for more hardy varieties that can survive our harsh winters.”

Dunn and others have been looking “inside” grasses in hopes of getting some cold-hardy “indicators.”

They compared three bermudagrasses and Meyer zoysia. (Zoyzias used in the Midwest are generally more cold-hardy than bermudagrass.)

They found that the carbohydrate content, mostly in the form of starch, was 2 to 3 times higher in zoysia than in bermuda during the cold-hardening period of early fall into winter.

Among the bermudagrasses, Dunn found little difference in carbohydrate levels even with differences in cold-hardiness.

He noted, however, that most carbohydrate storage of bermudagrass during fall and winter is in the stolons while storage in zoysias is equally divided between the stolons and rhizomes.

“One of the resistant bermudagrasses has more stolons and rhizomes which might give it an advantage over other Bermudas of equal, inherent hardiness,” said Dunn. “Since it has more of these, it has more possibilities of nodes surviving for regrowth.

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Composed of a natural combination of plant bi-products, decomposition bi-products, organic extracts, bacterial bi-products and many organic complexes found in highly productive organic soils, Soil Rebuilder recharges worn-out soil with life.

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meeting dates

Northeast Ohio Commercial and Public Pesticide School, Sheraton Motor Inn, Beachwood, Ohio, Feb. 21.


Williamsburg Garden Symposium, in association with the American Horticultural Society, Williamsburg, Va., Mar. 31-Apr. 5.

Maryland Sod Conference, 9th annual, Center of Adult Education, University of Maryland, College Park, Md., Mar. 7.

Southern Turfgrass Conference and Equipment Show, Holiday Inn Rivermont, Memphis, Tenn., Mar. 9-10.


Clemson University Turfgrass Field Day, 1st annual, Turfgrass Research Area, Dalton Farm, Pendleton, S.C., Mar. 20.

Southern Connecticut Grounds Keepers Ass'n., Grounds annual meeting, Downtown Holiday Inn, Tampa, Fla., Mar. 3-6.


Sixth Vertebrate Pest Conference, Royal Inn, Anaheim, Calif., Mar. 5-7.


Western Society of Weed Science, annual meeting, Royal Lahaina Hotel, Kaanapali, Maui, Hawaii, Mar. 11-14.

Canada Chapter, International Shade Tree Conference, annual meeting, Royal Inn, Winnipe, Manitoba, Canada, Apr. 3-5.

Southern California Turfgrass and Landscape Horticulture Institute, annual session, Royal Inn, Anaheim, Calif., April 23-24.

Western Chapter, International Shade Tree Conference, annual meeting, Del Monte Hyatt House, Monterey, Calif., May 19-22.

Florida Nurserymen and Growers Association, annual convention, Dutch Inn, Lake Buena Vista, Fla., May 23-25.

American Association of Nurserymen, annual convention, Four Seasons-Sheraton Hotel, Toronto, Ont., July 13-17.


For More Details Circle (170) on Reply Card
CENTER-MOUNTED ROTARY: Gravely, Clemmons, North Carolina

Here's a 50 inch center mount rotary mower and a 16½ HP tractor that make a combination that's hard to beat. It's the same tractor that made the torture test, mowing from Washington, D.C. to New York City in 12 days. Transmission on this powerhouse allows a choice of eight ground speeds. Another advantage is constant attachment speed. It permits operator to match ground speed with the job at hand. For more details, circle (701) on the reply card.

POLY-X CHAIN: Mercury Products Corporation, Providence, R.I.

Need a personnel barricade or barrier? A warning of a hazard? Use this colorful and decorative as well as durable polyethylene chain. It's available in several sizes and colors. Requires little or no maintenance and it is available in strengths up to 1200 lbs. of force. Also available are posts and cones on which chain is attached. Ideal for the golf superintendent or the parks and grounds manager. For more details, circle (702) on the reply card.

HYDROGRASSER: Reinco, Inc., Plainfield, N.J.

Model HG-25 is a low profile, 2500 gallon unit that can seed and fertilize five acres in one operation. Built for the large acreage user, this machine doesn't employ any belts, cables, pulleys or special drives. Fewer moving parts virtually eliminate down time. It can be chassis mounted and has a directional spray turret boom. The recirculating jet agitation insures continuous, uniform, no-clog solids dispersion. For more details, circle (703) on the reply card.


This small but powerful unit does the job of sprayers much larger in size. It attaches quickly to a standard water spigot. Here's how it works: Water flowing through the injection applicator activates four pistons which accurately inject liquid concentrate chemicals into the water stream at the ratio of one part concentrate to 24 parts water. Works positively on water pressures from 20 to 80 psi and flow rates from 1/10 to 7/2 gpm. For more details, circle (704) on the reply card.
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AMVAC Chemical Corp. Plans Attack On Aquatic Weeds

AMVAC Chemical Corporation has announced plans to launch a full scale offensive against weeds, algae and other aquatic pests.

Of growing concern to everyone from EPA to sportsmen’s groups is the condition of much of the water in the United States. Many bodies of water are choked with weeds and algae as a result of natural aging or other outside influences. While these aging processes are difficult to reverse, whether from natural causes or from other factors, symptomatic relief is available.

One of the reasons that persons owning or controlling water find it difficult to obtain information on this subject is that most of the materials available for this use have been offshoots of research in other areas, says the corporation. Another reason for the lack of readily available information has been the lack of trained personnel at the distributor level. Only a handful of such specialists exist, and a competent staff is difficult to assemble.

Justin Fuelleman, technical director for the organization, brings years of experience in weed abatement and aquatic pest control to the firm. Jack Prieur, as sales manager, is well known to public health and mosquito abatement personnel throughout the western United States. With the recent addition of Richard Zuccarini as a full time aquatic specialist, the firm becomes one of the first organizations in the west to create such a department.

Plans are to offer materials and recommendations for total aquatic habitat management as the situation dictates. “We feel that ill considered use of materials creates problems greater than those that already exist,” says Justin R. Fuelleman. “No responsible Pest Control Advisor advocates unplanned and indiscriminate use of any agricultural chemical.”

“We try to make recommendations which make maximum use of available natural controls and require a minimum of outside influence. This is not only the least expensive way,” says Richard Zuccarini, “but it gives the longest lasting results.

“We cannot expect to have clear water all year around without expending considerable effort. As the season progresses, it is natural for most bodies of water to become choked with weeds, algae and other matter. In the fall, with changing seasons, this dies back, decays, and as a result, fish and other aquatic creatures die. This is the natural system of checks and balances. Eventually all lakes grow old and die. The older they are physically, the greater the effort to keep them alive and safe for humans and animal life.

“In the end, it comes down to dollars and cents. We can devote a considerable amount of time and effort to a project, but we have to pay for materials. If we cannot find enough concerned people to raise the capital, neither we nor anyone else can begin.”

Stanley Hydraulics
Is New Ackley Name

Ackley Manufacturing Co., Clackamas, Oregon, subsidiary of The Stanley Works, has recently undergone a name change. The new name will be Stanley Hydraulic Tools, Division of The Stanley Works.

No other changes in company management or policy will occur, said Robert J. Lytle, president, Stanley Hydraulic Tools.
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Green Is For GO

Editor's Note: Louis L. Goldstein is the comptroller of the State of Maryland. In his work he regularly deals with reports on the state's economy. He was the guest speaker at the recent meeting of the Maryland Turfgrass Council. Although his remarks are directed to this group, we present them because they have meaning to all sod producers.

There was a book written some years ago which revolved around the fictitious story that all of the grass in the world had died except for one remaining green patch in England. The story highlighted the importance of grass through the description of the savagery and selfishness of the few remaining persons fighting for their very lives over the possession of this last green acre.

Without grass, there would be no meat nor other food crops. Without grass, our supply of oxygen would be dangerously depleted. Every acre of healthy grass produces much life supporting oxygen. Without grass, soil erosion would engulf us all. Land without grass would indeed be a "Never-Never Land". Turfgrass and its production, is, thank God, your basic interest and consideration.

A chart in one of your recent newsletters caught my attention. It showed a breakdown of the various uses of turfgrass in the state (Maryland). The $4.1 million expenditure for maintaining the sod being produced is a drop in the bucket when compared to the total effect on the economy derived from harvesting, transporting, and installing this product to the ultimate consumer site. (Table 1, pg. 66)

The many uses of turfgrass right here in Maryland make up an impressive list. But the uses for your product — turfgrass — and for other varieties of grass that I am sure many of you will be producing in the future, will continue to grow. Grass will undoubtedly be widely

Louis L. Goldstein, the author of this article, is comptroller for the State of Maryland. He is shown here (1) along with Dr. John R. Hall, U of Md. turf specialist, and Emory Patton, vice president of the Maryland Turfgrass Council.
Table 1. Estimated Expenditure in 1971 for maintaining turfgrass in the State of Maryland.

<table>
<thead>
<tr>
<th>Area</th>
<th>Acres</th>
<th>Annual Maintenance Production Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sod</td>
<td>13,000</td>
<td>$ 4,100,000</td>
</tr>
<tr>
<td>Golf Courses</td>
<td>13,240</td>
<td>8,570,000</td>
</tr>
<tr>
<td>Lawns - Maintenance</td>
<td>140,000</td>
<td>42,200,000</td>
</tr>
<tr>
<td>Lawns - Established</td>
<td>5,089</td>
<td>12,724,000</td>
</tr>
<tr>
<td>Federal Installations</td>
<td>21,900</td>
<td>2,250,000</td>
</tr>
<tr>
<td>Schools &amp; Colleges</td>
<td>16,700</td>
<td>1,714,000</td>
</tr>
<tr>
<td>Recreation Areas</td>
<td>16,800</td>
<td>1,645,000</td>
</tr>
<tr>
<td>Churches</td>
<td>2,600</td>
<td>266,200</td>
</tr>
<tr>
<td>Airports</td>
<td>1,200</td>
<td>133,200</td>
</tr>
<tr>
<td>Highways (State Roads)</td>
<td>20,000</td>
<td>1,500,000</td>
</tr>
<tr>
<td>Cemeteries</td>
<td>N/A</td>
<td>4,800,000</td>
</tr>
<tr>
<td>Total</td>
<td>249,729</td>
<td>$79,892,400</td>
</tr>
</tbody>
</table>

used purely as what I call an environmental crop. A Crop whose basic use is for the maintenance and improvement of our vital environmental well-being.

The average cost paid in 1971 to cut, load, deliver and install an acre of sod in Maryland was $3,279. Couple this figure with the estimated 13,000 acres of sod grown in Maryland and it is quite possible that the gross product of the State of Maryland could be increased by some 42 million dollars just by virtue of the installation of the sod crop.

Already we are moving in that direction. Building developers are turning more and more to the establishment and preservation of green havens within their community planning . . . highway builders are realizing the physical and environmental necessity for providing green medium strips.

Cities are including a grassy green oasis within their urban development programs. Everywhere you look, the word is green . . . The color symbol for go . . . for life itself.

The word grass comes up in our conversation a thousand times a day—once again underscoring the importance of your product, "a great crop." We say "That the grass is greener on the other side of the fence," when we dream of improving our lot in life. We speak of "the grass roots" of our American way of life, and we even sing of "The Green, Green Grass of Home."

But the time for sentiment alone is over. Like so many other things within the scope of our American way of life, that have been habitually taken for granted, the greening of America can no longer be left to chance. Wild grass is fast becoming extinct. Nowadays, the key word is cultivation and you of the council membership are doing an excellent job of keeping up with the technical problems of producing the best strains of healthy grass for a multitude of turf uses.

The production of tailor-made grass for a specific use is one of the great wonders of this age of technology. As you well know, golf courses require a different, tougher type of grass than say, a median strip of highway. Climatic conditions, usage, and many other considerations go into the development of your products.

Now is the time to take a down to (continued on page 72)
Seasonal leaf drop is one thing...

...but loss of leaves through bark and leaf infestation is quite another. To protect your shade trees, a well-planned spray program is well worth the time it requires — and BEAN spraying equipment is the best way to go. FMC's Rotomist controlled-air sprayers for example, are engineered to give you maximum penetration and assure you the best possible coverage and protection. FMC's Royal high pressure sprayers also afford you the versatility and performance you need...are available skid-mounted or in trailer models, with hose and gun for effective shade tree applications. You won't find any better tree protection than with BEAN sprayers. Contact your nearest FMC representative for a demonstration today, or write:

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EDWIN M. TAYLOR appointed chief designer for Friend Manufacturing Corp.

BEN KELKER appointed sales representative in northern Wisconsin for Lely Corporation.

DICK ZUCCARINI joins Amvac Chemical Corp. to help organize their new aquatic nuisance control dept. He was formerly western regional manager for Applied Biochemists.

ROBERT V. MITCHELL appointed superintendent of golf and grounds for The Greenbrier. He previously was golf superintendent of the Portage Country Club, Akron, Ohio.

DR. S. ROBERT COLBY joins the agricultural chemicals division of ICI America Inc. He will direct programs involving plant growth regulators and herbicides at the company’s Goldsboro, N.C. research center.

RAYMOND P. STORTI, named marketing manager of the turf products division, Hahn, Inc. He was formerly general manager with Toro Pacific Distributing Company.

DR. DONALD W. GATES, GARRY D. MASSEY, DAVID J. PROCHASKA join 3M Company as agricultural research scientists responsible for development of agricultural chemicals.

J. DAVID DeKRAKER is now director of marketing planning for the agricultural division of Ciba-Geigy Corp. In other company moves JOHN A. MULLINS, JR. named assistant director of sales for the division; DR. EVERETT COWETT appointed director of technical sales services; FRANK L. CLUNAN to manager of distribution services in logistics; GENE GENTRY to director of product quality assurance; PETER L. PLATZ to manager of contract manufacturing; DR. C. GLENN BRADLEY to manager of chemical studies; DR. BILL G. TWEEDY to manager of residue investigations.

AMBROSE D. DEGIDIO has taken over management of all Toro-owned distribution points. He replaces ROY W. SIMPSON who resigned to become an independent Toro distributor in Phoenix.

DR. JOHN H. THORNE, appointed director of research for the Jacklin Seed Co. He will supervise the testing and evaluating of new varieties of turfgrasses, monitor breeder fields and test generations of mother plants from initial discovery to commercial production.

JAMES A. BERGS, named territory sales-service representative for Mathews Company. He will cover the eastern half of Minnesota.

SAMUEL R. SUTPHIN, elected a director of the Norfolk and Western Railway Company. He fills a vacancy caused by the resignation of MILLS E. GODWIN, JR. who resigned to become Governor of Virginia. Sutphin is from Zionville, Indiana.
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mowing and watering, is not noticeable.

At times what you don't do is as important as what you do. Until about 15 years ago, for example, I spiked the fairways, but have since discontinued the practice. I believe fairway spiking: encourages Poa annua growth, causes unnecessary damage, more work, is unsightly and angers players who are unhappy with the playing conditions. However, aerification can have a place in turf management when used properly. A thatch machine such as Ryan's Mataway will assure better and tighter turf so fairways can be cut at a one-half-inch championship height.

No matter what a superintendent does or doesn't do, no matter how good a businessman he is or what precautions he takes, Nature can defeat him overnight. We can't be cocky in this business because our jobs are 99 percent luck and one percent common sense. But I love my work and enjoy competing with Nature. If I had to live my life again, I wouldn't change a thing.

Bermudagrass Care Requires Many Inputs

Standard management practices of irrigation, vertical mowing, and fertilization must be carefully programmed with chemical weed control to maintain weed-free, high quality bermudagrass, as shown by results of research done at the University of California, Riverside.

"If the interrelationships and timing of these practices are not considered," says W. W. Wright, research associate, "the results may be undesirable with respect to weed control and turf appearance."

Wright reported on the effects of cultural and chemical renovation of weed-infested bermudagrass turf during the American Society of Agronomy.

He conducted the research in cooperation with Dr. V. B. Youngner, professor of agronomy, UCR, and Dr. V. A. Gibeault, agricultural extension environmental horticulturist at the Riverside campus. The study was partially supported by a grant-in-aid from the U.S. Golf Association-Greens Section.

"In a randomized split, split plot experiment," Wright said, "irrigation, vertical mowing, nitrogen fertilization, and chemical weed control were evaluated for the renovation of a weed-infested common bermudagrass turf. These factors were considered from the viewpoint of long-term effects and maintenance of an improved condition once it was attained."

The researcher reported that the following results were observed after two and one-half years of regular treatment: over all the cultural practices, the highest quality turf was obtained with the use of the herbicide Kerb, although certain broad-leaf weeds were not controlled. Both fall and spring vertical mowing increased weed populations despite herbicide applications. For this reason vertical mowing, unless done for reseeding or thatch removal purposes, is a questionable practice. Fall vertical-mown plots contained considerably more weeds than spring vertical-mown plots. Soluble and slow-release fertilizers gave comparable turf quality. The frequency of irrigation influences the performance of chemicals and the effects of other cultural practices.

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