



NTA Officers and Directors Elected for 93/94

Thomas A. Christy, CGCS, Golf Course Superintendent at Riverside Golf & Country Club in Portland, Oregon was elected president of the Northwest Turfgrass Association during the organization's recent 47th annual conference held at the Holiday Inn in Yakima, Washington.

Christy, will preside as president of the 400+ member professional association of representatives of various segments of the turfgrass industry in the Pacific Northwest October 1993 to September of 1994.

Christy, a certified golf course superintendent (CGCS), recently completed a term as a director on the association's board of directors and has been active in the Oregon Golf Course Superintendents Association and the Golf Course Superintendents Association of America.

Elected vice president for 1993-94 was **Timothy J. Haldeman**, Manager of Public Works for Clark County, Washington. Elected to serve as secretary was **Tim R. Werner**, Supervisor of Parks Maintenance for the City of Walla Walla and elected to serve as treasurer was **Donald A. Clemans**, CGCS & CPAG, Senior Technical Representative for O.M. Scott & Sons working out of Sisters, Oregon. **Becky Michels**, owner of Messmer's Landscaping Service of Kirkland, Washington will serve as immediate past president.

Board directors reelected to three year terms are **Randy H. White**, CGCS, Golf Course Superintendent at Everett Golf & County Club and **James W. Dusin**, Greenkeeper at Apple Tree Golf Course in Yakima. New board directors elected include **Mike W. Erb**, Sales Representative with Wilbur Ellis Company, **John W. Monson**, CGCS, Facilities Manager for the Seattle Seahawks, Inc. and **Mark L. Snyder**, CGCS, Golf Course Superintendent at Salishan Lodge Golf Course in Gleneden, Oregon.

In addition to the elected members of the board, **Roy L. Goss** serves as a nonvoting "Director Emeritus" and **Blair Patrick** serves as the nonvoting Executive Director.

NTA Awards \$30,000 in Research Grant Funds

Research grants totaling \$30,000 have been awarded to two universities and the GCSAA for six research projects by the Northwest Turfgrass Association. Oregon State University (Corvallis), Washington State University Research and Extension Center (Puyallup), Washington State University (Pullman), and the Golf Course Superintendents Association of America are recipients of the grants.

Grant requests this year totaled over \$58,000. NTA Research and Scholarship Fund limitations precluded the NTA from granting any more than the \$30,000. Below is a summary of the funding requested and approved in 1993 (the 93-94 academic year):

Instit.	Researcher(s)	Project	Requested	Approved
OSU	Cook/Righettii	Remote Monitoring	\$5000	\$5000
WSU	Stahnke	Quantification and Fate of Nitrogen	\$5000	\$2500
WSU	Brauen	Quantification and Fate of Nitrogen	\$6500	\$4500
WSU	Brauen	ID of Water Use Requirs. & Stress Toler. of Turfgrass	\$10750	\$5000
WSU	Johnston	Improving Turf Est. & Quality / Solid Matrix Sand Priming	\$12500	\$5000
WSU	Johnston	On-going Programs	\$13500	\$6500
GCSAA	Roberts	Pesticide Exposure Study	\$5000	\$1000
OSU & WSU		Turfgrass Info. Services On-line Subscription	\$500	\$500

All the research grants deal with issues relevant to today's problems and environmental concerns and have the potential of being beneficial to today's grounds manager.

Financially assisting turfgrass research is a major purpose of the NTA. The funds for research are obtained by the NTA through a direct voluntary solicitation campaign for funds for the NTA Research and Scholarship Fund and through various other events and activities sponsored by the association e.g. R.L. Goss Golf Tournament for Research, et al.

President's Report

"Every man owes a part of his time and money to the business or industry in which he is engaged. No man has a moral right to withhold his support from an organization that is striving to improve conditions within his sphere."

Theodore Roosevelt

(Now if we only knew what "Teddy" meant by "walking softly and carrying a big stick", or what a "bully pulpit" was, we would really be ready to go.)

Many thanks to all of you who support the Northwest Turfgrass Association through your membership, sponsorship, conference attendance, golf tournament participation and gift contributions. Your continued involvement provides the necessary means for us to realize the original goals of this association, as stated in our Articles of Incorporation.

The mission of the NTA is really quite clear; to support ongoing turfgrass research, to provide education to our membership and to reward and encourage scholarship. While our membership is as diverse as our industry, our common bond has always been the pursuit of excellence in turfgrass.

The NTA is one of the few organizations that make no distinctions in membership classification. We welcome as equal partners the equipment dealer and the university professor, the gardener and the golf course superintendent, the sod grower and the landscape architect. The forum provided at our annual meeting and conference is unique, in part, because of this membership diversity and informal atmosphere. Invite your industry associates, who are not already members, to give us a try, they may be surprised at what they discover.

The 1993 conference in Yakima was well organized, well attended and hopefully well received. Kudos to the 1992-93 Board of Directors and past president Becky Michels for their considerable efforts over the past year. A very special thank you to Apple Tree golf course for hosting the golf tournament. The generous donation of green fees by Apple Tree was a significant contribution to our fund raising effort this year. The course was in excellent condition and fun to play thanks to the extra efforts of Jim Dusin and his staff. Jim was also responsible for organizing the outstanding social and hospitality programs in Yakima as well as working with Don Clemans to put together another notable, dual track, educational program. Thanks Jim. Many compliments were received from both presenters and attendees alike on the quality and organization of the speaker sessions.

Executive director Blair Patrick did an outstanding job of organizing the many different events that make up our conference. Orchestrating success for these annual meetings is no simple task and Blair once again demonstrated his professional skill and expertise.

We welcome Randy White, Mike Erb, Mark Snyder, John Monson and Jim Dusin to the 1993-94 Board of Directors. Randy, John and Jim were elected to three year terms, Mike to a two-year hitch and Mark to a one year position. Tim Haldeman will serve as Vice President this year, Tim Werner is our Secretary and Don Clemans is Treasurer. This looks like a can't miss group to me.

Finally, my sincere thanks and best wishes to past

presidents Tom Wolff and Bill Griffith who leave the Board this year. They have both served our association well and with distinction for many years, giving countless hours of their time, thought and energy. Working with them on the Board last year was certainly my pleasure and I will miss them both.

Hope to see you all next October in Seaside for the 1994 annual meeting and conference.

Tom Christy, President

1993 Northwest Turfgrass Conference Applauded by Participants

This year's **47th Northwest Turfgrass Conference**, held at the Holiday Inn in Yakima, October 11-13, 1993, was rated a success by the participants. Everything—the sports turf managers seminar and tour, the professional development program, the get acquainted reception, the golf tournament, the turf facilities tour and the spouse/guest tours—all received high marks by conference participants. Everyone commented on how much they got out of the conference and how much they enjoyed it.

The professional development program, with over 25 presentations, covered a wide range of timely turf management related topics. Presenters from throughout the nation served up a banquet of information. A conference **Proceedings**, to be published this winter, incorporating all of the presentations made at the conference, will be provided to all NTA members as a member service.

**We're committed to you
from the ground up.**



**United
Horticultural Supply.**

United Horticultural Supply is designed specifically to serve the turf professional.

We provide a broadbased line of premium quality, environmentally-sound products including fertilizers, chemicals and turfgrass seed.

Please call for more information about our products and services.



(800) 637-0422

**United
Horticultural Supply.**

NTA Awards \$5,000 in Scholarships for 93-94

Five outstanding students have been selected to receive NTA Scholarships totaling \$5,000. Scholarships have been awarded to two Oregon State University (OSU) and three Washington State University (WSU) students for the academic year 1993-94. OSU students receiving \$1,000 scholarships each were **Paul Winterbottom** and **Steve Bletscher** and WSU students, also receiving scholarships for \$1,000 each, were **Timothy A. Rowe**, **Samuel S. Sprague** and **Christian Schilling**.

Scholarship Recipient Sends Thanks

Dear Northwest Turfgrass Association Members,

I was recently awarded a scholarship from the NTA Research and Scholarship Fund of \$1,000 for the coming year and I want to take this opportunity to thank you for it.

I know that there were many fine candidates and I am extremely honored and appreciative that you have chosen me as a recipient. With your help, and the fine teaching staff in the Turf and Landscape Management program at Oregon State University, I am confident that my studies will be a success. I also have confidence that I will become an important and influential member of the turf industry in the Northwest.

Thank you again for this scholarship and your continued support of the Oregon State University turf program.

Sincerely,
Paul W. Winterbottom

PACIFIC CALCIUM, INC.
SEED RESEARCH OF OREGON
THE CHAS. H. LILLY COMPANY
UNITED HORTICULTURAL SUPPLY
UNITED PIPE AND SUPPLY COMPANY
WESTERN EQUIPMENT DISTRIBUTORS
WILBUR ELLIS COMPANY

The 15 sponsors should be recognized and thanked for their "sponsorships" of \$400 a sign, says Christy. All of the sponsor's funds, other than the cost of the sign, serves as a donation to the NTA Research and Scholarship Fund.

CONFERENCE GOLF TOURNAMENT WINNERS

100 plus players participated in this year's conference **R.L. Goss Golf Tournament for Research**. Three flights and a callaway group made up were involved on the beautiful Apple Tree Golf Course in Yakima. The 1993 tournament top winners were as follows:

First Flight

Low Gross (68)
Low Net (63)
K.P. (6th hole)
K.P. (17th hole)

Jeff Thomas
Robert Erickson
Gordon Wing
Ron Krieger

(continued on page 4)

Sponsorship Program for Research Very Successful

This was the first conference for the newly developed "Sponsorship Program."

Suppliers were invited to sponsor a tee or hole during the conference R.L. Goss Golf Tournament for Research by purchasing a sign to be displayed on the course and during other major events throughout the conference. Tom Christy, chairman of the committee that introduced the program this year, described the response as outstanding.

This year's sponsors participating in sponsorship program included the following companies:

BARNETT IMPLEMENT COMPANY, INC. (two signs)
CIBA-GEIGY CORPORATION
EVERGRO SALES, INC.
FARWEST EQUIPMENT COMPANY
JR SIMPLOT COMPANY
LANDA, INC.
O.M. SCOTT & SONS
OREGON GOLF COURSE SUPERINTENDENTS ASSOCIATION

Scotts Introduces...



TriaformTM Technology is a superior alternative to any traditional fertilizer you've ever used. It's patented, environmentally sound process dramatically improves the physical characteristics of a homogeneous fertilizer granule while delivering excellent agronomic performance and handling. Triaform technology offers better methylene urea (MU) nitrogen distribution to deliver more available nitrogen to the plant.

An innovation you'd expect from a name you can trust.



For details, call your
ProTurf Tech Rep

or 1-800-543-0006 today.

Tournament Winners *(cont. from page 3)*

Second Flight

Low Gross (83)
Low Net (66)
K.P. (6th hole)
K.P. (17th hole)

Tim Wolters
Charles Forsman
Charles Forsman
Rod Ragsdale

Third Flight

Low Gross (91)
Low Net (66)
K.P. (6th hole)
K.P. (17th hole)

Randy Shults
Doug Gates
John Westerdahl
Ed Adrian

Callaway

Low Gross (86)
Low Net (76)
K.P. (17th hole)

Scott Tyson
Dan Michels
Ed Moore

1994 Conference Rescheduled for Salishan Lodge

In an effort to respond to a membership survey conducted three years ago, the NTA Board of Directors scheduled the 1993 and 1994 annual conferences in October. However, due to scheduling problems the

originally announced conference dates and site have been changed. The **48th Northwest Turfgrass Conference** will now be held September 26-29, 1994 at the Salishan Lodge in Gleneden, Oregon.

1994 Membership Dues Statements Go Out Soon

Annual dues statements for 1994 will be mailed later this month or the first of next month. The dues are \$75.00 for active members (individuals engaged in the turfgrass industry or in the development or application of turfgrass industry technology); \$25.00 for subscribers (any person employed and sponsored by an active member), and \$15.00 for student members (any person enrolled in a university, college, community college or vocational school turfgrass or related industry program of studies).

The Northwest Turfgrass Association (NTA) is a nonprofit corporation founded in 1948 to help all people interest in turf grass culture. The association membership has nearly doubled over the past six years increasing from around 230 members to over 450. Members represent a variety of interests in the turf and grounds management industry including: golf course superintendents; parks, school, university and college, and

Hunter® SPRINKLERS

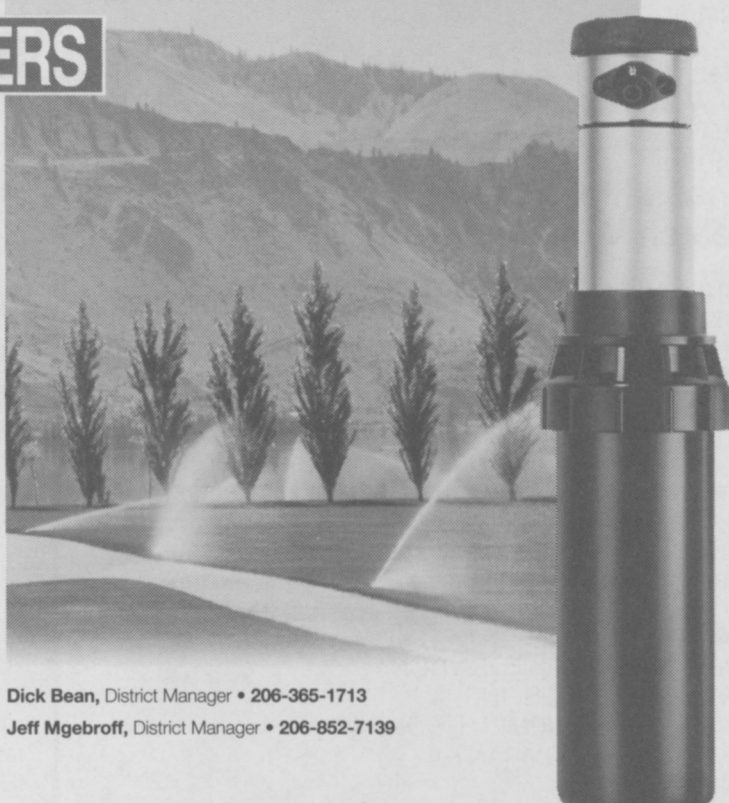
RELIABLE AND VANDAL-RESISTANT

The Institutional Series

Hunter Institutional Series sprinklers are the right choice for parks, sports fields, cemeteries and other large turf areas. They apply water without waste, and are designed for safety and vandal resistance.

The Model I-40

- Six interchangeable nozzles to vary the discharge rate from 7 to 27.5 GPM and the radius from 45 to 74'
- Adjustable arcs from 40° to 360°
- 3½" pop-up with stainless steel riser
- Drain check valve
- Five-year, over-the-counter exchange warranty



Dick Bean, District Manager • 206-365-1713

Jeff Mgebroff, District Manager • 206-852-7139

Hunter® Dedicated To The Irrigation Professional

1940 Diamond St. □ San Marcos, CA 92069 □ 619 / 744-5240 □ FAX: 619 / 744-7461



Model I-40 ADS
Gear Driven For
Quiet Operation

other public grounds management personnel; sports field management personnel; cemetery grounds management; commercial and residential grounds and lawn care management personnel; et al. In addition, lawn spray services, landscape designer services, landscape contractors, irrigation services and equipment and chemical suppliers, et al. all participate as members in the organization. Through its many activities, the NTA has benefited all of these people by helping them learn more about their industry and professions. The NTA's annual conference and publications provide timely and pertinent information specifically aimed at turf culture needs in the Pacific Northwest.

The NTA organization is directed by its membership through a board of directors. Board representation takes into account industry interest groups and the geographical make-up of the organization. Board members, elected by the general membership during the annual meeting, serve 3 year terms. The officers of the association are elected by and from the board for 1 year terms.

The NTA offers an opportunity to participate should to shoulder with leading turf management professionals and the suppliers supporting the industry in the Pacific Northwest.

Research Grant Proposals and Scholarship Applications

Research proposal grant requests and scholarship application information for 1994 (94-95) academic year will be included in the Winter edition of the Northwest **Turfgrass Topics**. Individuals interested in requesting financial assistance for research or research-related activity and students interested in applying for a scholarship for 1994-95 should check for detailed information in the next edition of the topics.

Winter Turf and Landscape Trade Shows

Three trade shows for turf and grounds management professionals are on tap for this winter. The first event, **Growing Crazy V**, is sponsored by the Western Washington Golf Course Superintendents Association, the Washington State Nursery and Landscape Association and Washington State University cooperative extension, and is scheduled for December 1-2, 1993 at the Washington State Convention and Trade Center in Seattle, Washington. The event includes seminars and a products and equipment show. For more information, call: (800) 275-9198.

The second event is the biennial **Chemical Applicator Seminar & Turf Management Show**, sponsored by the Oregon Golf Course Superintendents Association, will be held this year December 14-16, 1993 in Portland, Oregon. Contact Dick Malpass for information at (206) 573-6969.

The third event, the annual **Inland Northwest Turf and Landscape Trade Show**, is sponsored by the Inland Empire Golf Course Superintendents Association, and is scheduled for January 27, 1993 at the Spokane Interstate Fairgrounds in Spokane, Washington. The event includes a products and equipment show. There is no registration

and admission is free for this event. For more information, contact: Julie Boyce, 1708 N. Lee, Spokane, Washington 99207 (509) 534-4161.

Federal Pesticide Record Keeping Program

The 1990 Farm Bill established a federal pesticide record keeping program for all certified pesticide applicators effective May 10, 1993. The National Association of State Departments of Agriculture (NASDA) has worked with the USDA's Agricultural Marketing Service to prepare a fact sheet on the program for producers. A copy of the fact sheet has been enclosed in this newsletter as an insert.

Indoor Turf at the Silver Dome History in the Making

by Bob Wick

What does the Silver Dome Stadium in Pontiac, Michigan have that BC Place Stadium doesn't? REAL LIVE TURF! The stadiums are quite similar in design with a flexible roof suspended by air pressure and an artificial turf playing field. But now there is a major difference with the addition of a movable turf field.

On June 7, 1993, a historical event was taking place within the walls of the Silver Dome Stadium, but 75,000 seats were empty. For the first time ever, turf for a soccer match was being installed indoors that would stay in place for three weeks. The ultimate purpose for this project is to provide a first class soccer pitch for the World Cup matches in June/July 1994. FIFA, the organization responsible for soccer worldwide and who takes turf very seriously, will only allow their sanctioned matches to be played on real turf. Therefore they have not been able to play in the covered stadiums that are so popular in North America. The 1994 World Cup, hosted by the United States, will be different when four of their matches will be played indoors at the Silver Dome.

This is day of truth for a program that started in 1991 at Michigan State University when Dr. John "Trey" Rogers III (project manager), Dr. Paul Rieke and others started preparing the details and doing the turfgrass research necessary for a successful project. The project including research, planting, materials, maintenance, and moving the modules is being funded by private donations.

The 380 x 232 feet playing field is made up of 2000 hexagon shaped modules fabricated with reinforced iron 2 inches deep and 7 feet wide. On top of the side is a 4 inch removable band to create a growing medium depth of 6 inches. The growing medium is 80% sand, 10% soil and 10% peat. Each module weighs about 3500 pounds.

The containers were assembled in the Silver Dome parking lot, filled with the sand mixture and packed in early March 1993. After a settling period, 85% Kentucky Bluegrass and 15% perennial ryegrass sod was trucked in from California and laid on the modules five weeks before the modules were relocated indoors.

The research for the project concentrated on finding the best methods to control light, fertility, water, plant growth, disease and wear tolerance under these unique

(continued on page 6)

Indoor Turf (continued from page 5)

conditions. Most of this was done at the Hancock Turfgrass Research Center at Michigan State University where a special structure was built to simulate the light, pressure and other conditions in the Silver Dome. Over the two years much was learned by moving modules of turf in and out of the building and subjecting them to various maintenance practices, light intensities and wear treatment.

Since pictures are "worth a thousand words", the following is a description of the collage of pictures taken on June 7th starting in the top left corner and proceeding left to right:

1. The field of modules assembled in the parking lot receiving a regular maintenance program while the sod is knitting into place. Note the ramp on the left to corner to allow easy access for machinery.

2. Showing the depth of the roots forming between the modules and revealed when the modules were taken apart for relocation. 4-6 inches in just five weeks!

3. The sides of the modules are trimmed with a reciprocating saw before their trip indoors so that they will fit together properly.

4. The modules are moved indoors on a flatbed truck, off loaded and prepared for placement.

5. The locking corner of the collar is unlocked.

6. Then the collar is removed exposing the 5 inch profile of sand mixture and sod. The collar will be replaced when the module is moved back to the parking lot.

7. The modules are placed very carefully so that the fit is exact. Note that with the hexagon shape a

"honeycomb" pattern is formed. At any given point of interface only three points are touching with 120 degree corner angles making stronger intersections. After the complete field was in place it was rolled causing the joints to be even tighter. The modules fit so tightly together that the seams were barely visible.

8. After the first row is set, bracing must be used so that there is no movement while the next row is put into place. This bracing will not be necessary by the time the fourth row is in place because the total weight of the modules will make it immovable.

9. In the end zones and around the sides a layer of 1-1/2" round drain rock is placed for moving water to the floor drains. The drain rock is covered with 1 inch minus gravel to bring it to the level of the playing surface.

10. Aligning the first row has to be precise. Trey said, "If something is off half an inch here, we can be off 10 feet at the other end."

11. Left: Dr. John N. "Trey" Rogers III and Dr. Paul Rieke (guest speaker at the 1992 WCTA Conference)

12. One of the problems discovered during research was the quick forming of disease when the turf is moved indoors because of the low light intensity, high humidity and no air movement. Many large fans are employed to dry the turf thus stopping the disease without using fungicides.

The big test for this special turf field was an international soccer match between England and Germany on June 19th. A crowd of over 62,000 watched Germany win 2-1.

You ask how the pitch perceived by the players and by the very fussy FIFA organization? On the sports page in the June 20th Grand Rapids Press were the following quotes: Jurgen Klinsmann, German forward, said, "The grass was perfect. We never expected a pitch in such perfect condition. It was very exciting to play on it for the first time"; and FIFA spokesman Guido Tognoni said, "If every pitch in the world was as good as this one, we would never have pitch problems."

This was not the only soccer match played. During the three weeks that the field was indoors three other local matches were played. Then the modules were disassembled, collars replaced and relocated back onto the parking lot where they will be maintained awaiting their call to action for the World Cup 94 next June. As the field was set in the parking lot it still looked as good as most other soccer pitches even after being indoors and well used.

My thanks to Dr. Paul Rieke and Dr. Trey Rogers for hosting me and my camera at the Silver Dome to witness this historic event. The press were not allowed into the building until two days later.

Seven Easy Steps to Being a Rotten Manager

Bad managers can squeak by when times are good, even though they aren't doing their jobs. It's a different story when times are more difficult...like now.

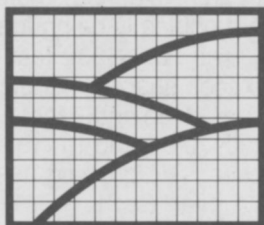
"Managers who don't motivate their pared-down staffs to work hard and keep their companies afloat get booted out the door - fast - because resources are limited," notes

SITE TAILORED PROGRAMS SAVE DOLLARS


LILLY/MILLER®
**PROFESSIONAL
TURF PRODUCTS**

INTEGRATED

- Slow Release Fertilizer Blends
- Seed Blends
- Plant Protectants



INTEGRATED TURF
MANAGEMENT PROGRAM

The Chas. H. Lilly Co.

PORTLAND
(503) 256-4600
1-800-433-3015 (Oregon)

NATIONWIDE
1-800-523-3668
1-800-562-7013

SEATTLE
(206) 762-0818
1-800-562-7013 (Washington)

Michael T. Montefusco Jr., president of Executive Career Dynamics, a Florida consulting firm. "You need techniques not only to manage people but to motivate them. Employees should want to work with you rather than have to work for you."

A surprising number of managers commit avoidable management "sins" that a little common sense would eliminate. Montefusco explains. Here he pinpoints seven of the worst:

1. Write Confusing Memos

Ego-driven managers will write long, rambling memos that leave employees asking, "What does all this mean and what am I supposed to do about it?" explains Montefusco, a former manager with NATO, who for more

than 10 years has advised managers and executives on improving personal effectiveness and productivity.

2. Dress to Distress

Managers who don't look like managers are perceived as unprofessional. A too-casual style of dress subconsciously distresses employees. They need someone to look up to who has an air of authority. A manager needs to look like the head of the team, not part of it.

3. Be Rude to Employees on the Phone

Poor managers bark out orders on the phone and hang up before the employee has a chance to ask questions or provide mitigating information the manager might need. This can spell disaster.

Rude, unresponsive managers don't return phone calls promptly to their employees. This makes it impossible for employees to efficiently use their time, particularly if there's a problem that needs discussing.

Self-important managers call employees, launch into a lecture, and never ask the employee if it's a convenient time for them to talk.

4. Expect Employees to be Mind Readers

Poor managers expect employees to know as much about a project as they do, without giving them all the facts. Or they leave few instructions pertaining to a job, yet get angry when a task isn't carried out to their satisfaction. This shows a lack of respect for their time. In business, there's no room for guesswork. It can be costly.

5. Change Your Mind Often or Without Explaining

It's demoralizing for employees to deal with a supervisor who constantly revises what's wanted or when it's wanted. The manager quickly loses the respect of the team because he appears inefficient, incompetent, on the defensive, and incapable of sticking with a decision.

6. Pretend to Listen When Thinking of other Things

Managers are busy and have a lot on their minds, so it's easy for concentration to drift. Employees quickly zero in on the lack of attention their words are receiving and become demoralized. It discourages future attempts at providing input.

Good managers know that if they don't listen, they might miss critical information. They also know that employees who feel their ideas and opinions are taken seriously are more likely to work to support the company's bottom line.

7. Shift Blame to Others

Self-serving managers want credit when things go well but won't take



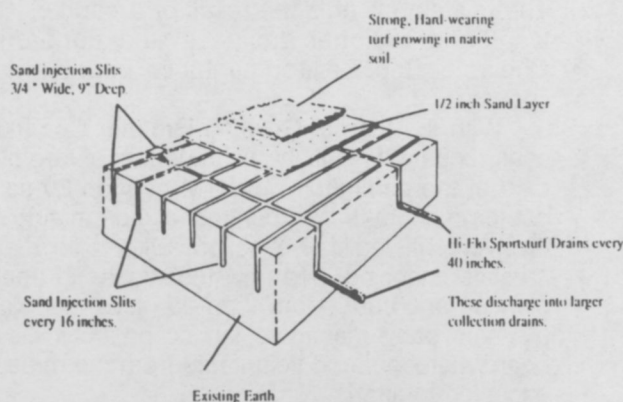
For **SAFETY** and **PLAYABILITY** offer Your Athletes
A FIRM FIELD ALL YEAR LONG!

Just Like:

U.C. Berkely's Varsity **BASEBALL** Field
Cleveland State University's **FOOTBALL** Field
Schaumburg, Illinois' Apollo **SOCCER** Field

For \$1.25/sq. ft. we install the guaranteed

CAMBRIDGE SPORTSTURF DRAINAGE SYSTEM



FOR A FREE SIX MINUTE VIDEO CALL:

(408) 728-3520

(continued on page 8)

Rotten Manager *(continued from page 7)*

blame when they don't. Instead, they pinpoint "Joe Smith" who didn't finish his part on time, budget cuts that made it impossible to do the job right, or a deadline that was too short.

Taking blame along with credit shows employees that their manager plays fair and by a consistent set of rules. Employees detest blame-shifters as unprofessional and feel that reflects badly on them.

Golf & Taxes

by Peter Salinetti, CGCS

As clubs begin to sort out the impact of President Clinton's new tax law, one thing is certain. The year 1994 will mean even less dollars will appear on the bottom line. So as we begin the budget process for 1994, "conservative" may be the approach we need to take.

In case you are not familiar with the Clinton tax law, in the past, club members have been able to take a tax deduction on dues if the use of the club has been primarily business related. This deduction will be eliminated as of January 1, 1994. In addition, the allowable tax deduction on business meals and entertainment is being reduced from eighty percent to fifty percent on the same date. All this means less dollars being spent at your club, so begin now to prepare an alternative plan to do more with less. Make sure that all suppliers of club products and services are well aware that 1994 could be a particularly tough year.

One thing is certain. Superintendents will find a way to get

things done. That's just the way it is. For years we have had demands placed on us that have exceeded our resources and abilities, but somehow we prevail. 1994 will be no different but we must start now to develop our battle plan.

Washington Superintendent Receives GCSAA Certification

Howard Sisson, superintendent at McCormick Woods Partners, has been designated a Certified Golf Course Superintendent (CGCS) by the Golf Course Superintendents Association of America (GCSAA).

Sisson has been superintendent of the Port Orchard, Wash., course since 1984. He lives at E. 401 Mt. View Drive, Allyn.

To become certified, a candidate must have five years experience as a golf course superintendent and be employed in that capacity. The candidate must pass a rigorous six-hour examination covering the rules of golf, turfgrass management, pest management, financial and organizational management and the history, ethics, purpose and procedures of GCSAA. Also, an on-site inspection of Sisson's golf course operation was conducted by two currently certified superintendents: Mark J. Seman, CGCS, of Tapps Island Golf Course, Sumner, and Andrew K. Soden, CGCS, of Oakbrook Golf & Country Club, Tacoma. GCSAA, a 12,900-member international professional and educational association, instituted the certification program in 1971 to recognize outstanding and progressive superintendents. More than 1,300 active GCSAA members currently hold "CGCS" status.

Inland Northwest Community Trees Conference

The Washington Department of Natural Resources and its counterparts in Oregon and Idaho are organizing the Inland Northwest Community Trees Conference to be held in Kennewick, Washington, March 9 and 10, 1994. The tri-state event is the result of a partnership between local and regional business and nonprofit groups. Chevrolet/Geo Environmental is a primary corporate sponsor.

With the theme, Growing Greener Communities, the conference will highlight the importance of tree planting and care at the community level. More than 30 speakers will gather to share their experiences in promoting community involvement, legislative action, utility tree management, creative financing, and new techniques in tree selection, planting and care. More than 200 local decision makers, planners, parks managers, landscape architects and parks-board members and volunteers from the three states are expected to attend.

Communities, nonprofit groups, and students in the region are invited to exhibit their projects, research findings and case studies in the conference "Idea Center." Commercial exhibitors and conference sponsors are welcome.

For further information call 1-206-365-3901.



WILBUR-ELLIS
IDEAS TO GROW WITH®

IDEAS TO GROW WITH



Fertilizers, Herbicides, Fungicides, Insecticides & Grass Seed

Distributors of



Caldwell, ID (208) 459-1631	Pasco, WA (509) 545-9329	Walla Walla, WA (509) 529-5381
Auburn, WA (206) 351-6591 1-800-275-6920	Portland, OR (503) 227-3525 1-800-452-5625	Wenatchee, WA (509) 663-8754
Moses Lake, WA (509) 765-9157	Spokane, WA (509) 928-4512 1-800-727-9186	Yakima, WA (509) 248-6171
Mt. Vernon, WA (206) 466-3138	Twin Falls, ID (208) 734-1880	

Table 1. Types, symptoms, and causes of winter injury that most commonly occur on golf course turf

Type of winter injury	Symptoms	Cause of injury	
		External forces	Internal plant effects
A. Desiccation:			
(1) Atmospheric	Leaves turn distinctly white but remain erect; occurs most commonly on higher locations that are more exposed to drying winds; can range from small irregular patches to extensive kill of large areas.	A drying atmospheric environment including high winds and low relative humidity; in addition, soil water absorption is reduced at low temperatures or may be inoperative because the soil is frozen.	Desiccation of the plant causes shrinkage and collapse of the protoplasm that results in mechanical damage and death.
(2) Soil	Leaves turn distinctly white and are semi-erect; the tissues including the crown are very dry; commonly occurs in a more extensive pattern over the turf than does atmospheric desiccation.	Extended periods of soil drought due to a drying atmospheric environment and lack of precipitation or irrigation.	(Same as above)
B. Direct low temperature kill	Leaves initially appear water-soaked, turning whitish-brown and progressing to a dark brown; the leaves are limp and tend to lay as a mat over the soil; a distinct, putrid odor is frequently evident; occurs most commonly in poorly drained areas such as soil depressions; frequently appear as large, irregular patches.	A rapid decrease in temperature, particularly the adjacent soil temperature; kill most commonly occurs at soil temperatures below 20°F during the late winter-early spring freezing and thawing periods; may be associated with thawing of an ice cover that occurs from underneath.	Large ice crystals form within the plant tissues causing mechanical destruction of the frozen, brittle protoplasm; the higher the water content of the tissue, the larger the ice crystals and the more severe the kill.
C. Low temperature diseases:			
(1) <i>Fusarium</i> patch (pink snow mold)	Pink mycelium on leaves; 1 to 2 inch, tan, circular patches; or white mycelial mass on leaves, white to pink circular patches up to 2 feet in diameter	<i>Fusarium nivale</i> ; favored by turfgrass temperatures of 32 to 40°F and moist conditions.	Parasitic action.
(2) Spring dead spot	Appears in the spring as irregular, circular dead spots of up to 3 feet in diameter; shoots, rhizomes, stolons and roots within the spot will be killed; affected spots commonly re-occur in the same location each year and may gradually enlarge.	Casual organism has not been identified; favored by turfgrass temperatures below 50°F and wet conditions.	Unknown
(3) <i>Typhula</i> blight (gray snow mold)	Light gray mycelium on leaves, especially at the margins of the advancing ring; whitish-gray, slimy, circular patches of up to 2 feet in diameter; brown sclerotia are embedded in the leaves and crowns, ranging up to 1/8 inch in diameter.	<i>Typhula itoana</i> , <i>T. idahoensis</i> , or <i>T. ishikariensis</i> ; favored by turfgrass temperatures of 32 to 40°F, especially under an ice cover or during its thaw.	Parasitic action.
(4) Winter crown rot	Light gray, matted mycelial growth may be evident on the leaves; irregular shaped patches initially appear yellow and gradually deteriorate to a straw color; individual patches up to 1 foot in diameter may coalesce causing damage over a large area.	Unidentified low temperature <i>Basidiomycete</i> ; favored by turfgrass temperatures of 28 to 32°F., especially under a snow cover.	Injury results from hydrogen cyanide gas produced by the saprophytic fungus; subsequently the fungus invades the host plant.
D. Traffic:			
(1) On frozen turfgrass leaves	Erect, white to light-tan dead leaves appearing in the shape of the foot-prints or wheels where they have been impressed into the turf.	Pressure of the traffic (shoes or wheels) on the rigid, frozen tissues; the problem most commonly occurs during the early morning hours.	Disruption of the frozen, brittle protoplasm that has ice crystals surrounding and extending into it during the early morning hours.
(2) On wet, slush covered turfs	Leaves initially appear water soaked turning whitish-brown and progressing to a dark brown; the leaves are limp and tend to lay as a mat over the soil; appears in irregular shapes associated with previous patterns of concentrated traffic; soil rutting may also be evident.	Snow cover thaws to a slushy condition causing increased hydration of the turfgrass crowns; traffic, including snowmobiles, force the wet slush into intimate contact with the turfgrass crowns; kill most commonly occurs if this event is followed by a decrease in temperature to below 20°F.	Not completely understood, but is related to the direct low temperature kill mechanism.

Table 2. Practices available to minimize winter injury on golf course turf

Type of winter injury	Practices that minimize injury		Specific protectants	Turfgrass species most commonly affected
	Turfgrass cultural	Soil management		
A. Desiccation:				
(1) Atmosphere	Moderate nitrogen nutritional levels. Elimination of any thatch problem.	Do not core in late fall and leave the holes open.	Conwed Winter Protection Blanket Polyethylene (4-6 mil) Saran Shade Cloth (94%) Topdressing (0.4 yd ³ / 1000 sq. ft.) Windbreaks such as snow fence, brush, or ornamental tree and shrub plantings. Natural organic mulches.	Annual bluegrass
(2) Soil	Moderate nitrogen nutritional levels. Irrigation or hauling of water to critical turfgrass areas.	(Same as above)	(Same as above)	Annual bluegrass
B. Direct low temperature kill	Moderate nitrogen nutritional levels. High potassium nutritional levels. Higher cutting heights. Elimination of any thatch problem. Avoidance of excessive irrigation.	Rapid surface drainage by proper contours, open catch basins, and ditches. Adequate subsurface drainage by drain tile, soil modification with coarse textured materials, slit trenches, and dry wells. Cultivation, especially coring and slicing, when compaction is a problem.	Conwed Winter Protection Cover Soil Retention Mat Enhancing a snow cover with snow fence or brush. Natural organic mulches such as straw. Soil warming by electricity.	Bermudagrass Annual bluegrass Red fescue
C. Low temperature diseases:				
(1) <i>Fusarium</i> patch	Moderate nitrogen nutritional levels. High potassium and iron nutritional levels. Moderate to low cutting heights. Elimination of any thatch problem.	Avoiding neutral to alkaline soil pH's	Cadmiums Benomyl Daconil Mercuries	Annual bluegrass Bentgrass
(2) Spring dead spot	Avoid excessive winter irrigation. Elimination of any thatch problem.	Provide good surface and subsurface drainage.. Cultivate when compaction is a problem.	Nabam, time the applications to be present when soil temperatures are below 50° F and the soil is water saturated.	Bermudagrass
(3) <i>Typhula</i> blight	Moderate nitrogen nutritional levels. Moderate to low cutting heights. Elimination of any thatch problem.	Provide good surface and subsurface drainage. Cultivate when compaction is a problem.	Cadmiums Chloroneb Mercuries	Annual bluegrass Bentgrass
(4) Winter crown rot	Elimination of any thatch problem.		Mercuric chloride (2 applications)	Annual bluegrass Bentgrass
D. Traffic:				
(1) On frozen turfgrass leaves	Apply a light application of water in early morning; this is most effective when the soil is not frozen and the air temperatures are above freezing.		Withhold or divert traffic from turfgrass areas during periods when the leaf and stem tissues are frozen.	
(2) On wet, slush-covered turf			Withhold traffic on turfgrass areas during wet, slushy conditions, especially if a drastic freeze is anticipated.	Annual bluegrass

New Fund Helps GCSAA Members in Need

A new fund created by the Golf Course Superintendents Association of America (GCSAA) Scholarship & Research (S&R) Foundation will offer emergency financial assistance to association members who are suffering personal losses resulting from natural disasters like the recent Midwest floods.

"This is a significant new benefit for our members," said GCSAA President Randy Nichols, CGCS. "Superintendents have always banded together to help when disaster strikes. This fund will allow us to offer immediate help to our colleagues."

The GCSAA Emergency Assistance Fund is designed to provide an immediate grant of up to \$250 to GCSAA members who need short-term financial help to compensate for personal losses resulting from a disaster. "It's set up with floods, hurricanes, earthquakes and tornadoes in mind," said Nichols. "We want to help GCSAA members and their families cope with the personal challenges created by these human tragedies."

The GCSAA board of directors voted unanimously to establish the fund with a \$5,000 "seed" gift and a number of chapters are planning gifts to supplement the fund. Meantime, the GCSAA S&R Foundation is urging individuals and companies to make "one-time" gifts to build the fund. "Our goal is to raise about \$20,000 for this to make it a permanent fund that carries over from year to year," said Nichols.

To apply for emergency funds, members should contact their chapter presidents or call GCSAA Scholarship

& Research at 800/472-7878.

Donations should be sent to: Disaster Relief Fund, GCSAA Development Department, P.O. Box 927, Lawrence, KS 66049-0927.

GCSAA Bylaws Amendments Proposed

LAWRENCE, Kan., Nov. 2, 1993 – Members of the Golf Course Superintendents Association of America (GCSAA) are being asked to consider 15 proposed amendments to the organization's bylaws and articles of incorporation.

Voting on the proposed amendments will take place at GCSAA's annual meeting, scheduled Feb. 7, 1994, at the International Golf Course Conference and Show in Dallas, Texas.

GCSAA President Randy Nichols, CGCS, says that many of the issues are similar to the ones presented at the 1993 annual meeting in Anaheim.

In the upcoming election, however, each issue will be presented on a separate ballot. Nichols says this clearly defined separation will enable voters to express their wishes on specific issues, without having to consider any unrelated "riders."

The gist of each of the proposed amendments was hammered out during dialogue at a Delegates Meeting held Sept. 25-26 at the association's headquarters in Lawrence, Kan. More than 60 of GCSAA's affiliated chapters were represented at the Delegates Meeting.

(continued on page 10)

From Tee To Green – The New G-600

The Hunter G-600 is the new product of choice for mid-range golf course irrigation. From the reliable gear drive to the impact-resistant body, the G-600 is ready to perform.

- Full-circle opposing nozzles for uniform water distribution
- Five nozzle sets. Adjustable from 13 to 32 GPM, 53' to 78' radius
- Check-O-Matic, Hydraulic and Electric Valve-In-Head models
- 3-1/2" pop-up
- Logo cap with built-in recess for yardage markers

Authorized Hunter Golf Distributor

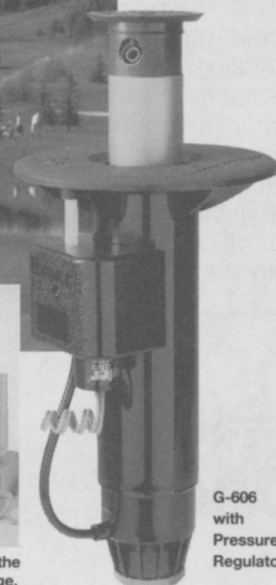
UNITED PIPE & SUPPLY INC
of Washington



Kennewick, 509-582-4308
Lynnwood, 800-541-8745
Spokane, 800-622-3037
Tacoma, 800-247-4707
Wenatchee, 800-772-7855



The Hunter Golf product line includes heads, valves, the ETC Satellite Controller and the GIMS Central Package.



G-606 with Pressure Regulator

Hunter® Dedicated To The Irrigation Professional

1940 Diamond St. □ San Marcos, CA 92069 □ U.S.A. □ 619-744-5240 □ FAX: 619-744-7461



GCSAA Bylaws *(continued from page 10)*

"A milestone in GCSAA's history" was how GCSAA Vice President Joseph G. Baidy, CGCS, described that meeting.

"I was very pleased with the excellent response and discussion from the delegates and chapter representatives," said Baidy, who served as chairman of both the Delegates Meeting and the Planning Resource Committee, which first met in May to begin deliberations of possible amendments.

"The consensus of the delegates was that these proposals go to the Bylaws Committee so that they can be brought to the floor at the annual meeting," Baidy explained. "(The delegates and chapter representatives) are going to take the information back to their chapters and request their input."

GCSAA's Standards Committee, as in years past, is serving as the Bylaws Committee for the purpose of formalizing the proposed amendments and submitting them to the board of directors for inclusion on ballots. Immediate past president William R. Roberts, CGCS, chairs the Standards/Bylaws Committee.

Sample ballots with exact text for each proposal, as reviewed by the Bylaws Committee, will be mailed in December to all voting members of GCSAA as part of the official Notice of Annual Meeting.

The basic issues to be voted upon include:

Membership classifications

- Maintaining the current requirement for a two-thirds majority vote to alter the qualifications and levels of privilege for membership Classes AA, A, B and C, while authorizing the board of directors to develop Standing Rules regarding the qualifications and levels of privilege for other membership classifications.

- Simplifying the determination of Class B and C qualifications by making all golf course superintendents with less than three years' experience Class B members and all assistant superintendents, regardless of experience, Class C. This proposal would also extend voting and other "gold card" privileges to Class C members.

- Adding six new membership categories for other golf course maintenance and management personnel, who currently are assigned to Affiliate or Associate classifications, and charging the board to establish Standing Rules for privileges of such membership.

- Establishing a separate membership classification for club officials and golf association staff members, who currently are classified as Affiliate or Associate members,

and requiring the board to determine Standing Rules for privileges of such membership.

- Creating a new membership class for educators and extension officers, who are currently included in the Affiliate or Associate classifications; allowing the board to lower dues for Retired members; making Honorary membership permanent unless revoked; and requiring the board to set Standing Rules regarding the privileges of Affiliate members.

Dues authority

- Preserving the membership's authority to set dues for Classes AA, A, B and C – but through regular ballot voting procedures instead of the current voice vote – while assigning responsibility for setting other membership classification's dues to the board of directors.

Accountability

- Requiring a two-thirds majority of the board of directors to approve the execution of any mortgage or loan document that would incur financial obligation for future boards of directors.

- Requiring the printing, in a GCSAA membership publication, of an official post-election report of voting records by chapter name, and by totals of individual votes and totals of proxy votes. (Note: If approved, this amendment would not take effect until the 1995 annual meeting, due to current ballot requirements.)

- Making the submission of false information on any membership application or dues statement an offense punishable by discipline or expulsion; eliminating the current reinstatement requirement of payment of all past-due amounts.

Other issues

- Updating the organization's mission to reflect the importance of environmental awareness in golf course management, and to make the association's bylaws and articles of incorporation match.

- Changing the secretary/treasurer position from a presidential appointment to an elected office.

- Clarifying the secretary/treasurer's official duties.

- Naming the president, vice president and secretary/treasurer as trustees of the Benevolence Fund.

- Re-titling the association's chief executive employee "CEO" instead of "executive director."

Jacklin Launches JacklinGolf

Jacklin Seed Company announces the introduction of JacklinGolf, a new service and technical support team dedicated to the needs of golf course architects, builders and authorized distributors.

According to Doyle Jacklin, JacklinGolf's senior marketing director, individuals who respond to JacklinGolf's new advertising campaign are receiving sets of easy-to-use reference guides. These materials have been developed to assist with course design, renovation and overseeding decisions.

JacklinGolf's specially trained staff is made up of turfgrass specialists and research personnel all dedicated to providing the expertise and technical support necessary



JULIUS ROSSO
WHOLESALE NURSERY CO.

206/763-1888
800/832-1888
FAX: 206/762-2544

6404 Ellis Ave. So. (Georgetown)
Seattle, Washington 98108
P.O. Box 80345

to assist with any golf course turfgrass decision or problem. This service can be accessed through a toll free number – 800-760-4321.

"JacklinGolf represents our commitment to the golf course industry," says Jacklin. "We are looking forward to offering our knowledge and experience to this very important industry."

GCSAA Looks for New CEO

The Golf Course Superintendents Association of America (GCSAA) is looking for a new chief executive officer following the resignation of John Schilling to open his own business.

GCSAA president Randy Nichols wrote this in a letter to members:

"The Board of Directors is extremely disappointed with (Schilling's) decision to resign. However, we do respect his desires to begin his own business where his ability and skills will again be demonstrated."

Robert Ochs and Diana Green also resigned to become part of Schilling's new venture, St. Andrews Corp., based in Lawrence, Kans. It will offer various services—event management, import/export consultation, risk management and insurance services—to golf and other industries. Ochs had been senior director of communications and general counsel; Green was senior director of operations.

Schilling's resignation is effective Jan. 1, 1994, but he will stay through January to affect a smooth transition in leadership. He will also be available to help manage the 1994 Conference & Show in Dallas.

"I have thoroughly enjoyed the last 15 years at GCSAA, serving the membership and the golf course management industry," Schilling told LM. "The association has made tremendous progress during the last few years, and I've been very pleased to be a small part of that. I believe the association has a bright future, and look forward to continuing to assist the golf industry."

Schilling took over as executive director on Sept. 1, 1983, when his controversial predecessor, Jim Loughlin, resigned. During Schilling's tenure, the GCSAA has increased its membership, grown its annual Conference & Show, and expanded its boundaries internationally.

The GCSAA Board of Directors is conducting a nationwide search for a new CEO amidst an organization-wide realignment, recommended by Arthur Anderson & Co., one of the world's leading consulting firms.

NORTHWEST TURF EQUIPMENT

Specializing in Golf Course & Landscape Equipment Repair

- ✓ Complete Reel Grinding Service
- ✓ Rebuilt Hydrostats Available
- ✓ Briggs & Stratton & Kohler
- ✓ Engines Available
- ✓ Alternative to New! Will Rebuild Your
- ✓ Equipment -- at a Savings to You.

WINTER EQUIP. MAINT. - LOW COMPETITIVE RATES

Call Keith Hansen
(503) 359-5211

1284 S. Alpine, Cornelius, OR
(MAIL) 2800 S. Dogwood, Cornelius, OR 97113

The Board approved Anderson & Co.'s recommendations 8-1. The dissenting vote was cast by immediate past president Bill Roberts of Lochmoor Club in Grosse Point Woods, Mich., who resigned.

In his letter of resignation, Roberts objected to the study and the need for recommended changes. "This process could...subject the association and certain individuals to needless litigation," he wrote. "To implement the study places the chief executive officer in a mere figurehead position."

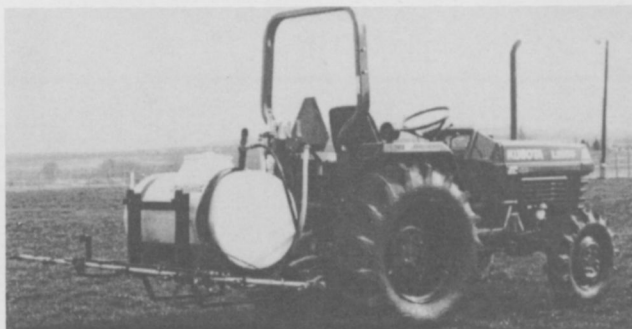
Jeff Mgebroff Appointed Hunter District Manager in Pacific Northwest

Veteran technical service and support manager Jeff Mgebroff has been named the new Hunter Industries's District Manager for the Pacific Northwest, announced Charles Huston, company director of sales and marketing.

He will represent Hunter sprinklers, valves and controllers for residential and commercial markets, and will also coordinate sales for the Hunter Golf product line.

His territory will include Oregon, Washington, Montana and western Idaho, along with four western Canadian provinces, British Columbia, Alberta, Saskatchewan and Manitoba.

THE MCGREGOR COMPANY



The McGregor Mini 3-Point Hitch Sprayer with 55 gal. poly tank and a boom that covers 20 ft., gets a full-size effort out garden tractors and 3-point hitch tractors of 60 HP or less. Use the 25-ft. hose and handgun or broadcast nozzle to spray in spaces too tight for the boom.

Other features of the PTO driven sprayer include a roller pump and a 3-section boom control, allowing operators to select precisely where the material is applied. Available in hitch sizes Category 0 and Category 1 to accommodate low horsepower, small profile tractors.

Integrity • Innovation • Expertise



**Equipment Sales
& Manufacturing**

Dealer Inquiries Welcome

1-800-727-9160

509-397-4360 • P.O. Box 740 • Colfax, WA 99111

1993-94 Board of Directors

PRESIDENT
DIRECTOR A-1
Thomas A. Christy, CGCS
Golf Course Superintendent
RIVERSIDE GOLF & COUNTRY
CLUB
8105 NE 33rd Drive
Portland, OR 97211
Phone: 503-288-3471

SECRETARY
DIRECTOR C-1
Tim R. Werner
Landscape/Grounds Manager
CITY OF WALLA WALLA
925 Whitman St.
Walla Walla, WA 99362
Phone: 509 527-4403

PAST PRESIDENT
Rebecca R. Michels
President
MESSMER'S LANDSCAPING
SERVICE INC.
24664 156th SE
Kent, WA 98042
Phone: 206 228-5779

DIRECTOR B-2
James W. Dusen
Greenkeeper
APPLE TREE GOLF COURSE
8804 Occidental Ave.
Yakima, WA 98903
Phone: 509 965-9844

DIRECTOR A-3
John W. Monson, CGCS
Facilities Manager
SEATTLE SEAHAWKS
11220 NE 53rd St.
Kirkland, WA 98033
Phone: 206 827-9777

STAFF
Blair Patrick, CAE
Executive Director
NORTHWEST TURFGRASS
ASSOCIATION
P.O. Box 1367
Olympia, WA 98507
Phone: 206 754-0825

VICE PRESIDENT
DIRECTOR A-2
Timothy J. Haldeman
Parks & Facilities Maintenance Mgr.
CLARK COUNTY PUBLIC WORKS-
PARKS & REC
4700 NE 78th Street
Vancouver, WA 98665
Phone: 206 699-2446

TREASURER
DIRECTOR C-2
Donald A. Clemans, CGCS, CPA
Sales Representative
O. M. SCOTT & SONS
14437 Pole Court
Sisters, OR 97759
Phone: 503 549-3933

DIRECTOR B-1
Randy H. White, CGCS
Golf Course Superintendent
EVERETT GOLF AND
COUNTRY CLUB
PO Box 2300
Everett, WA 98203
Phone: 206 353-7028

DIRECTOR B-3
Mike W. Erb
Sales Representative
WILBUR ELLIS COMPANY
1521 15th St. NW #5
Auburn, WA 98001-3504
Phone: 206 448-1869

DIRECTOR C-3
Mark L. Snyder, CGCS
Golf Course Superintendent
SALISHAN LODGE
PO Box 118
Gleneden Beach, OR 97388
Phone: 503 764-3667

STAFF
Jerry Crabill
Administrative Assistant
NORTHWEST TURFGRASS
ASSOCIATION
P.O. Box 1367
Olympia, WA 98507-1367
Phone: 206 754-0825

Calendar of Events

- December 1-2, 1993** **WWGCSA Growing Crazy V**
Contact: 1-800-275-9198
- December 14-16, 1993** **OGCSA Chemical Applicator Seminar & Turf Management Show**
Contact: Dick Malpass (206) 573-6969
- January 10, 1994** **NTA Board Meeting**
Contact: (206) 754-0825
- January 27, 1994** **IEGCSA 7th Inland Northwest Turf & Landscape Trade Show**
Contact: Julie Boyce (509) 534-4161
- January 31-Feb. 7, 1994** **GCSAA 65th Conference and Show**
Contact: (913) 832-4430
- February 20-23, 1994** **Western Canada Turfgrass Association 1994 Annual Conference & Show**
Contact: (604) 467-2564
- February 27-28, 1994** **NTA Board Work Session and Meeting**
Contact: (206) 754-0825
- March 5-8, 1994** **Canadian Golf Superintendents Association 45th Conference and Show**
Contact: (905) 602-8873

- Pesticide Programs -

Contact WSU Conferences & Institutes (509) 335-2946 for "Pesticide Pre-License" and "Pesticide Recertification" programs in your area.

ADVERTISING/EDITORIAL

DEADLINE

15th OF DECEMBER, MARCH,
JUNE AND SEPTEMBER

NORTHWEST TURFGRASS ASSOCIATION

Published at least quarterly by the Northwest Turfgrass Association. Blair Patrick, Managing Editor.
Articles for future issues may be sent to the NTA office. Membership dues include the cost of subscription.
Separate subscription price \$15.00 per year. All comments herein are not necessarily endorsed by the
association. Advertising should be addressed to the NTA office.

ADDRESS
CORRECTION
REQUESTED

NONPROFIT ORG.
U.S. POSTAGE
PAID
PERMIT NO. 385
OLYMPIA, WA

PETER COOKINGHAM N 1364
Turfgrass Information File
MICHIGAN STATE UNIVERSITY
MAIN LIBRARY W212
EAST LANSING MI 48824-1048

P.O. Box 1367
Olympia, Washington 98507
(206) 754-0825

Address Corrections: If address is wrong in any respect, please
correct the above label and return it to the NTA office.