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Rolling—

(Continued from Page 19)

ure of force per unit area, but is a method to rank the relative potential for compaction of two or more rollers. This formula is easy to use and all the information needed is readily available. By using the roll factor, a superintendent has an excellent means to compare rollers and other turf equipment used on the golf course.

The "Do's and Don'ts" of Rolling

Now that we have reviewed the effects of rolling on the putting surface, the types of rollers available and a method to compare rollers, some final thoughts on developing a rolling program are in order.

Realize that a roller is a tool and not a quick fix or a substitute for a good agronomic program. As demonstrated through research, proper frequencies of rolling can improve the smoothness and speed of a green. Generally, low rates of rolling, such as once or twice a week during non-stress periods, can be practiced without detriment to the turf. Higher rates of rolling can be practiced for short durations only. When injury occurs, it is gradual and does not happen overnight. However, high frequencies of rolling, such as four or seven times per week for an extended period, may result in diminishing turf quality.

Rolling does not always have to be used as a means to improve existing green speed. During the off-season, when clipping production is minimal, rolling greens is an excellent means to remove dew and provide a putting surface comparable to a freshly mowed green. Rolling also can be used after aerification as a way to minimize the surface disruption associated with this practice.

The education of golfers and course officials is essential to any rolling program. Spoiling golfers with continual rolling may help create a standard that no one can sustain. It is important to make a distinction between the proper and improper use of a roller. There are times when rolling can be practiced and times when roll-



FLIGHT WINNERS, from left to right, David Krueger, Crow River; Scot Ender, Ruffridge-Johnson; John Beyer, Pine Meadows, and Scott Wersal, Northfield CC.

ing is not advised. The more these groups understand the principles of a proper rolling program, the more successful the superintendent will be.

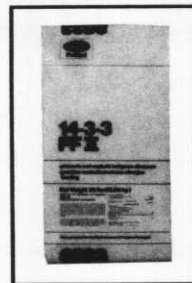
It is not known whether the practice of rolling will continue to follow a roller coaster of popularity. What is known is that superintendents now have more information about the ef-

fects of rolling and a wider choice of rolling equipment. This information can be used to develop an agronomically appropriate greens rolling program that will benefit those who enjoy golf.

Chris Hartwiger is an agronomist in the USGA Green Section's Southeastern and Florida Regions.

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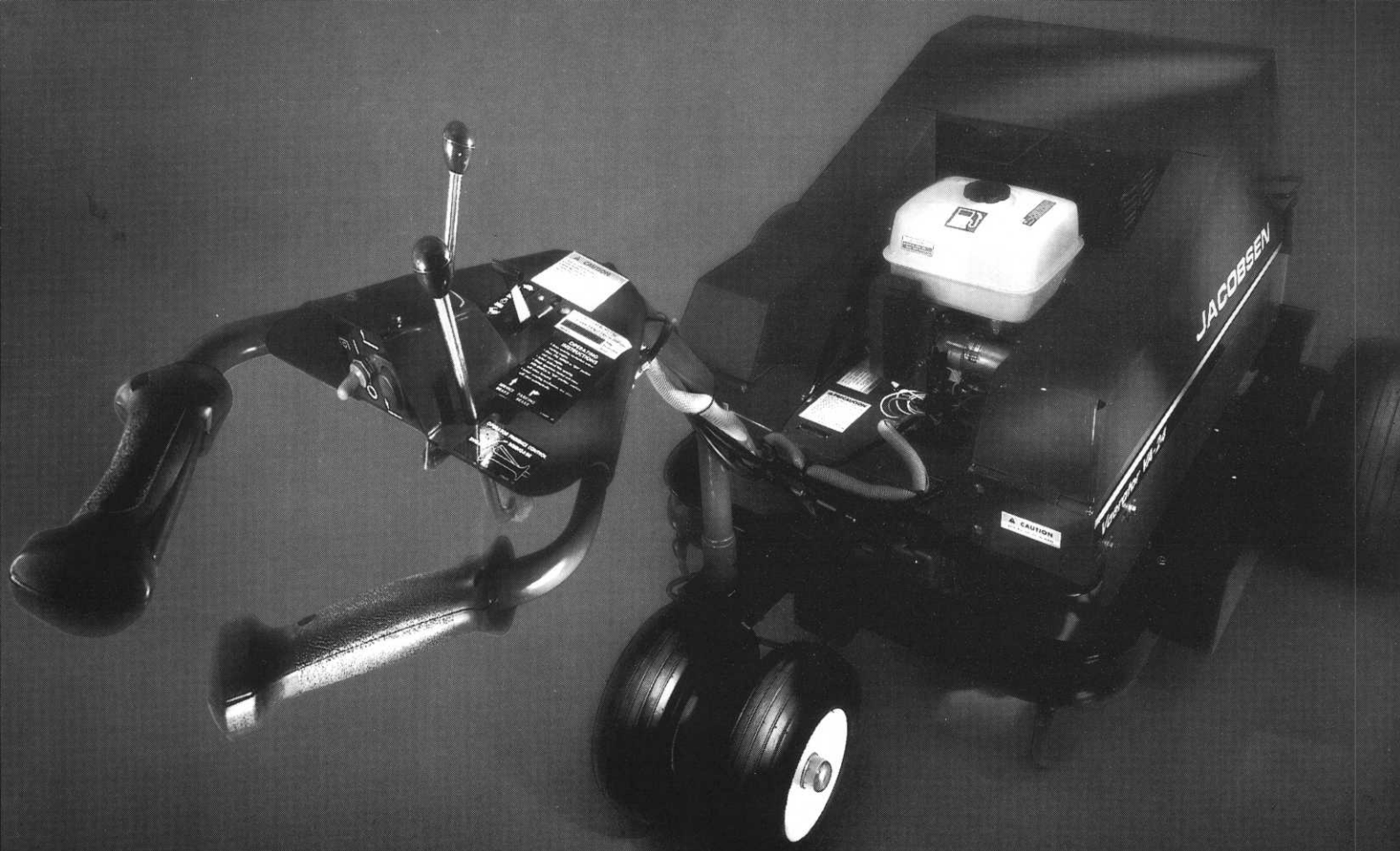
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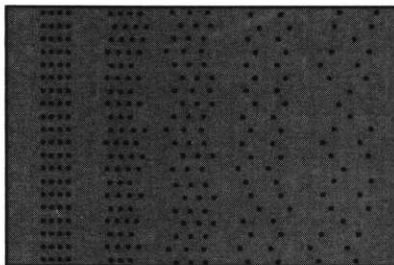
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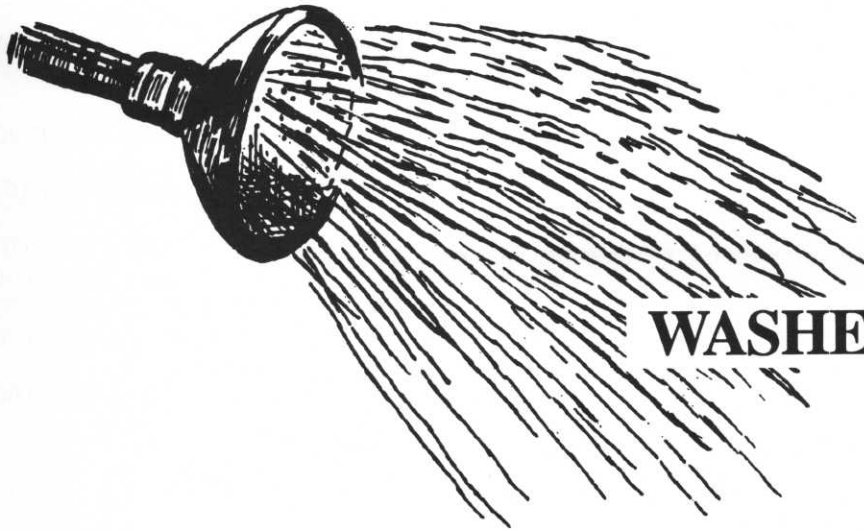
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1996 MGCSA Amateur Results

Saint Croix National Golf Club — August 12, 1996

Championship Flight

Bruce Leland, Continental Bridge.....	77
Tom Notch, Rush Creek GC.....	78
Chuck Egeberg, Clifton Hollow GC.....	79
Steve Tomaszewski, Manitou Ridge GC.....	80
Jeff Backstrom, Cannon GC.....	81
Jeff Larson, Pebble Creek CC.....	81
George Norman, New Richmond GC.....	82
Jerry Webb, Prestwick GC.....	82
Mike Brower, Hillcrest CC.....	83
Brooks Ellingson, Albion Ridges.....	83
Mike Klatte, Elm Creek Golf Links of Plymouth.....	84
Steve Busch, Long Lake Tractor.....	85
Martin Terveer, Hidden Creek GC.....	85
Cary Femrite, Pebble Creek CC.....	86
Kevin Clunis, Saint Croix National GC.....	87
James Gardner, The Wilds GC.....	87
Lance Paulson, Clifton Hollow GC.....	87
Steve Makowske, Interlachen CC.....	88
Mike Nelson, Rush Creek GC.....	88
Thomas Schmidt, Hillcrest CC.....	90
Charlie Miller, Crystal Lake GC.....	91
Paul Johnson, Mendakota CC.....	91
Joe Buege, Pebble Creek CC.....	92
John Nylund, Braemar GC.....	92
Dan Pakko, Hillcrest CC.....	92
Kevan Tusa, Cannon GC.....	95
Tim Berggren, Saint Croix National GC.....	97
Chuck Schoenrock, The Wilds GC.....	99
Dennis Owen, Terrace View GC.....	104

First Flight (net scores)

Scot Ender, Ruffridge-Johnson.....	68
Eric Sundet, Hastings CC.....	70
Cris Risberg, Eagle Trace.....	72
Thomas Eschete, Crystal Lake GC.....	73
George Peterson, Pebble Creek CC.....	73
John Betchwars, Creeks Bend GC.....	75
Charlie Pooch, Les Bolstad University of Minnesota GC.....	76
Tom Mundy, E-Z-GO.....	76
John Ganske, Spooner GC.....	76
Paul Jones, Tee Shot Marketing.....	76
Chuck Tuthill, Thief River Falls.....	77
Jeff Langevin, Par Aide Products Co.....	79
Matt Rostal, Interlachen CC.....	79
Chris Crockett, E-Z-GO.....	79
Kelly Johnson, Oneka Ridge GC.....	80
Christopher Smith, New Richmond GC.....	80
Kevin Wold, Hillcrest CC.....	80
Scott Hoffman, Madden's on Gull Lake.....	81
Dan Evavold, MTI Distributing Co.....	81
Richard Carr, Interlachen CC.....	81
Tom Feriancek, Hastings CC.....	81
Mike Olson, Golden Valley CC.....	82
Don Egeberg, Clifton Hollow GC.....	83
Drew Larsen, Woodhill CC.....	83

First Flight (continued)

Jerry Schirm, Golden Valley CC.....	83
Butch Greeninger, MTI Distributing Co.....	84
David Kirscht, David Kirscht & Assoc.....	84
Steve Garske, Par Aide Products Co.....	87
Greg Hubbard, Manitou Ridge GC.....	89
Tom Earley, Polfus Golf & Turf.....	91
Dale Walesheck, Reed Sales.....	94
Don Belkengren, Turf Supply Company.....	100

Second Flight (net scores)

David Krueger, Crow River.....	71
John Granholt, Eau Claire CC.....	72
Marlin Murphy, Stillwater CC.....	75
Tom Little, Minnesota Golf Cars.....	78
Eric Peterson, Interlachen CC.....	78
Tom Fuller, Rush Creek GC.....	79
Robert Reihe, MTI Distributing Co.....	79
Dennis Salwei, The Howe Co.....	79
Tim Nelson, Eagle Trace.....	79
Rick Fredericksen, Woodhill CC.....	80
Fred Taylor, Mankato GC.....	86
Mark Paffel, Spooner GC.....	88
Michael Ligday, Manitou Ridge GC.....	93
Jon Almquist, MTI Distributing Co.....	96
Freddie Petersen, Dwan GC.....	101
Craig Vigen, Fargo CC.....	103

Callaway Flight

Scott Wersal, Northfield GC.....	71
Kevin Froemming, Crow River CC.....	72
Larry Thornton, Ringer Corp.....	73
Chuck Molinari, Fox Hollow GC.....	74
Alex Ellram, River Oaks GC.....	76
Mike Kettler, Sunde Engineering.....	76
Brian Kenny, Precision Turf.....	77
Bob Atol, Braemar GC.....	78
Brett Hetland, Bristol Ridge GC.....	78
Robert Schmidt, Bristol Ridge GC.....	78
Forrest Tibbetts, Stillwater CC.....	79
Ben Ratzlaff, River Oaks GC.....	79
Allen Starke, Mankato GC.....	79
Mike Kelly, Glen Rehbein Co.....	84

Senior Flight (net scores)

John Beyer, Pine Meadows GC.....	68
Dick Grundstrom, Indian Hills GC.....	77
John Monson, Long Prairie CC.....	78
Gary Rohling, Rohling Green Corp.....	78
Jerry Bibbey, St. Paul.....	78
Joe Check, Check Signature Inc.....	80
Russ Adams, Les Bolstad University of Minnesota GC.....	86
Daryl Scheerhoorn, PBI/Gordon.....	94

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COMMITTEE UPDATES

Scholarship Committee

The Scholarship Committee of the MGCSA is pleased to announce the four recipients of \$1,000 turf scholarship for the 1996-1997 academic term.

* * *

Andrew Larsen

Andrew is currently in the turf program at the University of Minnesota leaning toward a major in Environmental Horticulture. His past golf course experience includes working from May of 1991 to June of 1996 at Interlachen Country Club. He is presently employed at Woodhill Country Club in the capacity of supervising foreman.

* * *

Ann Paulisich

Ann will apply her scholarship towards completing a two-year technical program for turfgrass management at Penn State University. Ann is a graduate of St. Cloud State University and is currently employed at Stillwater Country Club where she has been since May of 1991.

* * *

Reid Paulson

Reid is going to South Dakota State University after completing a two-

year program at NDSU-Bottineau. He hopes to complete a four-year program at SDSU in horticulture with emphasis on turf management as he enjoys golf course work immensely. Experience for Reid includes 3½ years at Devils Lake Town and Country Club and current employment at Bristol Ridge Golf Course.

* * *

Shannon Schornack

Shannon will be entering a two-year program in golf course grounds management hoping to pursue a career as a superintendent. Shannon's interest in the profession surfaced as he became involved in the expansion of Terrace National Golf Course in Staples where he has worked since June, 1995.

* * *

Best of luck to all of our scholarship recipients. They follow an ever-increasing number of successful students receiving scholarships and continuing in the profession.

* * *

Thank you Precision Turf, Leitner Company and Par Aide Products Company for donations which help keep our scholarship program operating.

* * *

The scholarship committee consists of Tom Johnson, Dave Zimmer, Dick Grundstom, Larry Mueller, Pat Walton and Charlie Pooch.

* * *

Anyone wishing to donate prizes for the raffle, to be held during the trade show to benefit the scholarship fund, please call Scott Turtinen at the MGCSA office (612/473-0557). This raffle will hopefully add funds which must be made to keep our current scholarship program going.

— Charlie Pooch

MGCSA Scholarship Chairman

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This has become our association's primary source of income for the Scholarship Fund.

* * *

The Scholarship Committee thanks you for your consideration.



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TOM JOHNSON, New Richmond GC, attempts a putt without anyone tending the pin.

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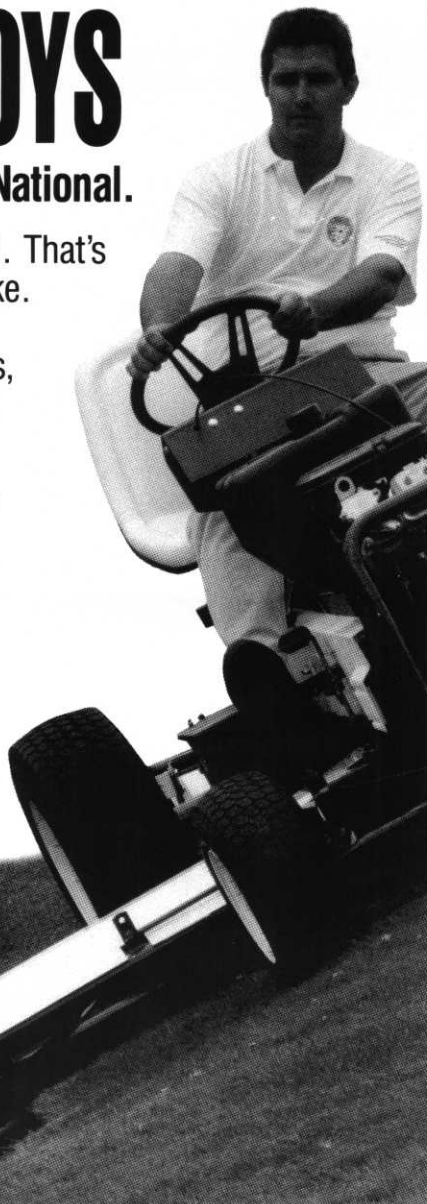
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GCSAA Study Shows Improvement In Golfer Environmental Attitudes

The majority of America's golfers believe that golf course superintendents use pesticides and fertilizers responsibly, and their general concerns about the environmental impact of golf have decreased, according to a new independent study commissioned by the Golf Course Superintendents Association of America (GCSAA).

More than 80 percent of golfers surveyed believe that superintendents are environmentally responsible and that golf courses are good for the environment — a figure up from just 55 percent less than two years ago.

Golfers cited unrepaired ball marks as the most bothersome and frequent course conditioning problem. "It was interesting that the thing that bothered golfers most is a problem they can and should fix themselves," said GCSAA President Bruce R. Williams, CGCS.



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