Ullrich singles out these options as the most important of the new innovations:

— A "Quick Height-of-Cut Kit" allows five different settings with the flip of a handle, each altering the H.O.C. by .100 inch, with a total range of 1/2 inch above the base setting of the cutting unit.

— A new "Low Cut Suspension Frame" provides extra down force for special cutting applications requiring very low cutting heights.

— A new Backlapping Kit allows backlapping on the machine.

— A new "5-Blade Cutting Unit and a new 8-Blade Cutting Unit" with three different bedknives to choose from for a close, smooth cut down to 3/32"; a Lo-Cut Bedknife for a cut down to 1/8", and the High-Cut Bedknife for cuts down to 3/16".

— Both the new 5-Blade cutting unit and 8-Blade models feature an exclusive Single Hand Knob Control". This feature has been the standard of the industry on the Toro Reelmaster Gang Mowers for years. The knob can be easily moved to adjust the bedknife to the reel. It contains a detent with a .001 (.025mm) movement of the bedknife for each indexed position.

— A new Wiehle Roller" of all cast iron, machined to precision, enhances penetration for a smoother cut.

EDITOR'S CORNER

FRED ANDERSON, JR.

Well, it looks like it is getting time to get back to serious golf course work. Those of us that unfortunately have easy access for snowmobiles are able now to assess the damage done to trees, greens, tees, etc. It is a real pretty sight going to your 17th and 18th green and see the prints left by the snowmobile skids and track. I'm afraid that most of these snowmobile drivers (which is probably in the minority) have an individual I.Q. about the size of their waist. These are usually the same type individual that will in the summer rent a golf cart and then proceed to drive on the tees between the traps and greens, into the lakes and then drive over the "No Carts Allowed Sign". I think we all know the type and, hopefully, we won't have many encounters like this during the upcoming season.

Thanks go out to the following for their contributions of articles for the HOLE NOTES: Joe Moris, Tartan Park; Scott Liestman, Rum River Golf; and Jim Lester, Egeberg's Golf Cars. I feel a special thanks should go out to all of our suppliers that advertise in the HOLE NOTES. We as buyers should be using these companies when we are considering making our purchases. Not only do they have the products that we use, they are also a wealth of knowledge and they are more than willing to share it with us. An example of some additional support from our suppliers to our association comes from Cieba-Geigy with a check for $528.00 which will be used for research. So again, thank you.

It has come to my attention that those who purchase Penncross or Penneagle will be able to do something worthwhile and it won't cost you anything. All you have to do is send the BLUE TAG that is on the bags or containers and send them to Dr. Fred V. Grau, P.O. Box AA, College Park, Maryland 20740. These will be used by the Musser International Turfgrass Foundation to help graduate students involved in research of turfgrass from an improved athletic field turf to better golf course turf. So please send in those BLUE TAGS.

It is apparent through the success of the Mini Conference that we all thirst for turf knowledge and research being done or coming up. Through the efforts of Keith Scott and the research committee, some of that thirst has been quenched. Those in attendance heard Mr. Jim Latham talk about "You can run but you can't hide", dealing with problems that arise daily on our courses with the crux of his talk being "don't be treating just the symptoms and not the cause". University research update with Dr. Taylor on the test green built at the "U" course using five different soil mixes, and Dr. White's talk...
on the importance of syringing to lower the temperature of the turfgrass from going into stress. The eye appealing talk by Mr. Bidwell on what flowers can do for you on your golf course, clubhouse and club entrance area and the impression it leaves on people. Dr. Larsen's re-emphasizing the point on not applying the same chemical back to back in order to prevent disease resistance to the chemical. Even with the newer and longer acting chemicals, don't get yourself in trouble as happened with that of Benomyl overuse and abuse. And finally Don Herfort's talk on the do's and don't's of designing a new green. A special thanks goes out to all the speakers; Don Lindblad and his staff at Majestic Oaks for another fine meal and facility; our session chairpeople, Chris Hague, Hazeltine, and Scott Hoffman, Maddens. With over 180 served for lunch (that's 30 more than last year) it's a credit to our committees and association as a whole that the educational seminars are so well arranged and attended.

Coming addition in the HOLE NOTES, if all goes well, will be a "Question and Answer" section. Questions submitted will be answered by the experts. No matter what your question is, write it down, no names, send it in (I'll tell you where next issue) and we'll answer it as soon as possible.

COMING MEETINGS:

April 15: New Prague Golf Club, Scott Proshak and Bob Adams, hosts

May 13: River Falls Golf Club, Scott Ainsworth, host

June 19: Turf Expo

June 30: Annual Picnic

July 8: Northland Country Club, Mike Netzel, host

Aug. 12: Island View Country Club, Mark Poppitz, host

Sept. 9: Guest Day Scramble at Hazeltine National, Chris Hague, host

Oct. 7: Golden Valley Country Club, Mike Olson, host

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NEW TRENDS IN TURF MAINTENANCE EQUIPMENT  
PART 1

by JAMES KAUFMAN  
MTI DISTRIBUTING COMPANY

A subject such as this usually invites the reader to anticipate miracle products and sensational solutions to the everyday job. Advancement in technology is rather rapid when you consider it in 50 year increments. But please keep in mind, the process in bringing to market, machines that are better than 10 and 5 years ago, is a slow painstaking one. This article will discuss a variety of maintenance considerations and what better products may be available for handling them more effectively.

WEIGHT

Lighter weight and less compaction is a turf man's goal for almost any piece of equipment. Recognizing this, industry will make improvements through new design and materials, resulting in less overall size, and with less weight being the trend. Reduced ground pressure (pounds per square inch) will come about through lighter weight and higher strength materials, lighter weight engines, and the judicious use of floatation type tires.

NOISE

There has been a long term trend to quieter products. The European market is most noise sensitive and has led the world in low noise design. The standards for privacy will become more strict as the consumer environmental concern marches ahead. Noise suppression will evolve with more attention paid to the multiple sources of noise. As an example, of a rotary mowers total machine noise, at least as much noise comes from the blade as comes from the engine exhaust. One hears the loudest sound, while much of the other contributing noises are subordinated. The internal parts of an engine (valves), etc., plus transmissions all add to the total noise impact. Considerable art exists today in tuning noise to a certain tone; thereby lessening its impact. Even though the decibel rating may be higher, the tone of the continued on Page 13