

Director's Column



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by Ray Schmitz

Once again I have been appointed golf chairman for the MAGCS. This is my third year as golf chairman and it may have set some kind of record for endurance. From past experience I have found that it is necessary to have some assistance in order to present a successful program. This year there will be five members on the golf committee to assist in carrying out all the necessary duties. The members are Mike Bavier, Ed Braunsky, Tim Davis, Tim Kelly, and Tom Nestor.

One of the committees goals this year is to pick an interesting event for each monthly meeting and to announce it soon enough for players to choose their foursomes before the day of the event. Also we are campaigning for all participants to have a golf handicap either with their home course or through the MAGCS. At this time the MAGCS is keeping track of 45 handicaps at no cost to the players. It is important that each golfer have a handicap to enable the committee to provide various golf events.

New sweaters and golf shirts were ordered with a new style logo. This apparel will be offered for golf prizes and available to the membership for sale at our cost.

The golf committee is appointed to serve the membership. We are receptive to any suggestions or ideas that may make the golfing events more enjoyable. Feel free to contact myself or anyone on the committee.

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by Bob Morris

High Temperatures are Gone But Not the Damage

"We recently took an infrared thermometer (the gun-shaped heat sensor that measures surface temperatures when you aim it at an object) into the field when air temperatures were hovering around 105 degrees F. Aiming that thing at nearby surroundings produced some interesting results.

"Bare, dry soil subjected to these air temperatures and light intensities climbed to 145 degrees F, just slightly below the surface temperatures of asphalt. Gravel has a temperature similar to that of asphalt. On the other hand, turfgrass and leaf surface temperatures of some nearby shrubs measured a cool 95 degrees F, ten degrees cooler than the air temperature and forty degrees cooler than bare soil."

These are fine points, to be sure, but as long as we are dealing with defoliated turf we need all the help we can get. There are few black or white options. For instance, at what point does shade become a limiting factor? Or, how much wind movement is necessary across a putting surface for best moisture and heat dissipation?

It is now mandatory to exert maximum control of the controllables. Sand quality is easily determined by sieving and particle size distribution can be specified. This is a simple and direct situation. The success of straight, uniformly sized sand topdressing has been widely demonstrated since Madison proposed it in 1974. Organic additives are another story, and are bothersome.

Peat bothers me because of the tremendous variation possible in the sources. The amount of detrimental non-organic material can vary widely within a very small area in a "mine". Clay, silt and very fine sand content can be amazingly high in peats that "look" and "feel" good. The only judge of quality is a rather detailed laboratory test. In construction, quality control is possible because purchases are in large, checkable lots. In year-to-year topdressing, though, some change is inevitable.

We cannot argue with the success that many superintendents have had with sand/peat topdressing, even though an 80/20 mix is not 80/20 after the little peat balls are dragged or mowed off. (Perhaps that loss is beneficial). Variability here is seldom checked, making straight sand topdressing more and more palatable.

Research projects and experiences during the 1988 season have clarified a few points for 1989 consumption:

1. Regardless of the weather conditions in May and June, Summer Patch treatments should begin when soil temperature at a 2" depth reaches 65°F. A second application should follow in a month. The Michigan State trials showed Rubigan, Bayleton and Banner to be very effective fungicides. Dr. Vargas feels that Banner may also be effective with slightly later applications.

2. Dr. Shearman at Nebraska believes that on days when it is evident that syringing will be needed, it should begin just before noon so that the water droplets on the turf will dissipate the heat via evaporation during the period when solar radiation is at its peak. This will reduce the amount of heat reaching the turf, thus minimizing heat buildup.

3. Relative humidity levels are extremely important as the temperatures rise and when the soil is adequately moist. Evaporative cooling is minimal when atmospheric moisture is high, so general irrigation may be more harmful than beneficial. Daytime hand watering (or just syringing) the high spots when needed is a better idea. Making wet soil even wetter has no cooling effect — it just reduces the soil oxygen supply. Even the most sophisticated irrigation system is incapable of solving all the water problems on undulating terrain. That's when quality **management** shows its value.

In the future we must give more consideration to the grass plant as a whole and its interactions with the rest of the environment. The more that we reduce any factor limiting growth, the better the turf can withstand the cultural stresses which we inflict. That future is now.