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the Bull Sheet

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construction, helping to supervise the building of the first two "USGA" greens ever at Orchard Lake C.C. and Oakland Hills C.C. in Michigan. In the mid-'60s, he joined Dr. Marvin Ferguson and Herman Johnson to found Agri-Systems of Texas, and later started his own golf course construction company. His last project was Teal Wing G.C. at Ross' Teal Lake Lodge near Hayward, WI a few years ago.

As you may have read in the Dates to Remember column, June 24, 2000 is the day of World Shotgun 2000. The goal is to have as many golfers as possible around the world strike a shot at the same time, with play coordinated by a shotgun start at the Royal and Ancient at St. Andrews, Scotland. For more info, check out www.worldshotgun2000.com or e-mail enquiries@worldshotgun2000.com.

For those who did not know, Julius Albaugh spent a little time in the hospital this summer. After a visit in May revealed some problems, Julie had some things removed, some things replaced and a couple of things—including his desire to get back to the golf course—left as is. His son Dan reports he is as ornery as usual and back to a full schedule (to the chagrin of his crew). Julius and his wife will be taking a trip

to Germany this winter, compliments of the Club, in recognition of his 35th anniversary on the job. Congratulations, Julius, and enjoy your trip!

Your MAGCS Nominating Committee, composed of chairman Kevin Czerkies and regular guys Mike Bavier, Ed Braunsky, Don Cross and Alan Fierst, have announced the slate of candidates for the upcoming Annual Meeting: for president...Don Ferreri; vice president...Brian Bossert; secretary/treasurer...Luke Strojny; for directors—three to be elected to two-year terms, and one to be elected to a one-year term—Fred Behnke, Tom Fahey, John Gurke, Jeff Luezinger, Mike Mumper and Phil Zeinert. Kevin DeRoo and Greg Thalmann have one year remaining on their terms. Dan Anderson and Jim McNair will be leaving the Board after the Annual Meeting.

Local goings-on: Lynn Wesson, superintendent at Phillips Park G.C., has been very busy lately. The back nine at the municipal course where many Aurorans learned to play golf and still enjoy playing is undergoing major renovations, including enlarged greens and tees and improvements to fairways. Following completion of the back nine, the front nine will be totally rebuilt and will include a driving range, three youth holes and a new clubhouse facility. Martin Design is the architect,

Glen Bowlin the irrigation designer and Wadsworth Construction is the contractor.

Don't file it "circularly": Look for a mailing from MAGCS some time prior to the Annual Meeting in regard to bylaw changes. Thirty-eight bylaw changes will be proposed at the Meeting, and knowing a bit about them in advance can certainly be helpful.

The suspense is over—we now know the winner of the 2000 Old Tom Morris Award. It's Nancy Lopez. Now we can all finally get some sleep.

Last, but not least, I found this item in the November, 1949 issue of *the Bull Sheet*—50 years ago next month: "HOW THE MIDWEST BULLETIN GOT ITS NAME" – About two years ago, when *the Bull Sheet* was still only an idea, the editor called one of our superintendents and said, "We are all set for the new publication except that we need a name for it," whereupon the superintendent replied, "Your worries are over, just call it *THE BULL SHEET*." In order to clear up the mystery for the benefit of our readers, it is a pleasure to reveal the name of the member who submitted the appropriate title for the bulletin, Mr. Bob Williams, Beverly C.C. Fifty years ago.



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Trees Prepare For Winter

Dan Meyer

This article originally appeared in the fall 1992 issue of Woodland Management magazine, and is reprinted here with the permission of the Wisconsin Woodland Owners Association.

It's a question many of us have pondered at one time or another as we witness the transformation of green forests into bright bursts of orange, red and yellow...why exactly do leaves change color? What's happening physiologically?

Every autumn, deciduous trees go through a series of steps in preparation for winter. Deciduous trees are those that annually shed their leaves; this includes most broadleaf trees in the U.S. and one conifer (the larch, or tamarack). The process is triggered by both internal hormonal activity and temperature, day length, light quality (sun angle) and water supply.

As autumn sets in, the trees stop producing chlorophyll, the green-pigmented photosynthetic material in leaves. At the same time, species that contain large amounts of carbohydrates begin to form anthocyanins (a red-colored pigment) in their leaves. As chlorophyll synthesis stops, the chlorophyll already present begins to disinte-

grate and the newly formed anthocyanins are unmasked.

In trees that do not form anthocyanin pigments, the chlorophyll breakdown unmasks the already existing yellow to orange carotene and xanthophyll pigments, resulting in yellow-colored leaves. Thus, by disintegration of green pigments; the unmasking of yellow pigments; or the formation of red pigments; or all three, the leaves may assume various shades of yellow, orange, crimson, purple or red.

Trees such as alder and black locust show little color change. A large group of trees, including black walnut, catalpa, elm, hickory, basswood and sycamore turn to a mixture of rusty green and yellow. Leaves of aspens (poplars), honey locust, ginkgo, beech and most birch species turn a brilliant yellow.

The dazzling reds of autumn are the leaves of sugar and red maples, and white and scarlet oak. Within these species a wide spectrum of color can develop depending on environmental conditions and carbohydrate concentrations.

The lowering of temperatures to near freezing favors anthocyanin formation, while severe early frosts make red autumn colors less brilliant. Bright light favors red colors. Droughty

conditions also favor bright red colors, and rainy, cloudy fall days decrease the intensity of fall colors. In short, the best colors occur under conditions of clear, dry and cool but not freezing weather.

Leaf senescence and abscission

Leaf senescence (death) and abscission (falling off) follow color change. Adverse environmental conditions, such as short days and temperature change, also serve as triggers for these processes. Senescence is associated with color change and involves the loss of chlorophyll and the export of carbohydrates, nitrogen and minerals from the leaves back into the tree. In effect, trees conserve resources by sucking all of the reusable materials from the leaves before they fall off.

Leaf drop, or abscission, is under strong hormonal control. The hormone auxin works throughout the growing season to prevent abscission. In the fall, hormonal ethylene increases in concentration relative to auxins and triggers abscission.

Cold hardiness

Trees go through three sequential stages of acclimation to cold. The first stage is set in motion by decreasing the day length in autumn, and involves the cessation

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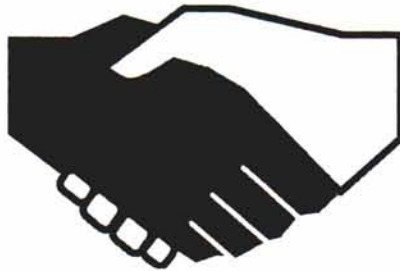


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