

## NEWS FROM THE LOCAL

The Ken Lapp's, Fresh Meadows Golf Club had a boy, Jeffery Allen Lapp on May 8th. Jeff weighed 8 lbs. 12 ounces. The proud Grandpa is Amos Lapp, St Andrews Golf Club.

Charlie Martin is the new Superintendent at Calumet Country Club. Charlie was Warren Bidwell's Assistant in New Jersey and was with Warren at Olympia Fields Country Club for about a year before taking the job at Calumet Country Club.

Paul Voykin, formerly with Calumet Country Club, has moved to the Briarwood Country Club.

The Biltmore Country Club is the site for a charity event between Sam Sneed and Jimmy Demarett on July 8th. Tickets are \$5.00 in advance, \$7.00 at the gate, and the proceeds will be given to the Chicago Maternity Center. John Ebel is the Superintendent at the Biltmore Country Club.

The Annual P.G.A. Tournament will be held July 24th through the 30th at the Olympia Fields Country Club, Warren Bidwell, Superintendent. There will be

There will be a Pro Amateur event at Onwentsia Club on July 31st. Emil Mashie is Superintendent. Entry fees are \$500.00 This is also a charity event for the Children's Memorial Hospital. The fifty top money winning professionals will be in this tournament.

The winners at our last meeting were Bill Saielli, Peter Voykin and H. Michels all were tied for low Gross — 76.

In the Blind Bogey, the winners were: Russ Reed, Wally Peiper, Ben Kronn, Alby Staudt and Paul Voykin. John Ebel was also a winner, as was H. Michaels, Ed Stewart, John Coghill, Peter Voykin, Joe Canale and Dudley Smith.

Our Speaker at the last meeting was Ben Chlevin, Assistant Publisher of Golfdom Magazine. His subject was "Superintendents' are Human". His talk was well presented and well received. He made most of us aware of the fact that with a little effort on our part, we would improve ourselves to the point where we would receive recognition for what we are as well as for what we do.

Dr. Mike Britton will be our Guest Speaker at Bonnie Dundee July 10th. He will discuss our Pathological problems in turf this year. Frank Dinelli will conduct his Question Box immediately after Dr. Britton's talk. We hope you plan to attend this meeting.

Membership in the Midwest Association of Golf Course Superintendents is divided into the following classes:

CLASS	MEMBERS
AA	2
A	107
B	16
C	0
D	18
E	35
	<hr/>
	178
	16 Honoraries
	5 Complimentary Class A
	<hr/>
	199

We need one more member to make it an even 200.

## QUIZ YOURSELF

1. What three elements make up a complete fertilizer?
2. What is meant by a 10-6-4 analysis?
3. How many lbs. of Potash in a ton of 5-10-5? In a ton of 15-5-10?
4. Approximately how many gallons in an acre inch of water? (this means to cover an acre 1 in. deep)
5. Which holds more water - a 5 gallon can, or a cubic foot?
6. What does pH stand for?
7. How many seeds in a pound of bentgrass?  
(a) 2 million (b) 4 million (d) 8 million.
8. What year was our National Association founded?
9. What colored stakes are used to designate Out-of-Bounds?
10. May a player lift his ball from a rut caused by equipment without penalty?
11. How far behind the tee markers is a player allowed to tee up his ball?

Answers on following page.



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## DEFINITION OF pH

Alkalinity and acidity of water and soil are frequently expressed in terms of their pH, which is a symbol for hydrogen ion concentration. A pH test determines the strength of the acid or alkali, while chemical tests for acidity and alkalinity determine the amounts of the acid or alkali present. An ion is an atom or group of atoms that carries an electric charge. Solutions ionize, i.e. split up into the electrically charged ions. Acidity is caused by positively charged hydrogen or H<sup>+</sup> ions, and alkalinity by negatively charged hydroxyl or OH<sup>-</sup> ions. A soil containing alkaline material will have many OH<sup>-</sup> ions, while a soil containing acid will have many H<sup>+</sup> ions. In neutral solutions the H<sup>+</sup> ions and the OH<sup>-</sup> ions unite to form H<sub>2</sub>O, or water. Pure water itself, however, dissociates to a slight extent, measurement of the electrical potential exerted by the positively charged ions indicates that there is 0.000,000, 1 gram of H<sup>+</sup> ions per liter. This is an awkward number to use, however, and the logarithm of its reciprocal, which is 7, is used to express neutrality. In any solution, as the negative ions increase, the positive ions must necessarily decrease, and accordingly measurement of the H<sup>+</sup> ions remaining will indicate alkalinity until the solution contains one gram of OH<sup>-</sup> ions per liter when the logarithm of the reciprocal of the H<sup>+</sup> concentration is 14. On the acid side of neutrality the logarithm of the reciprocal of the H<sup>+</sup> concentration decreases until it reaches 1.

The following table will help to make the above clearer.

pH values	Grams of hydrogen ions (H <sup>+</sup> ) per liter of solution	Gram equivalents of hydroxyl ions (OH <sup>-</sup> ) per liter of solution
4.0	0.000,1	0.000,000,000,1
5.0	0.000,01	0.000,000,001
6.0	0.000,001	0.000,000,01
7.0	0.000,000,1	0.000,000,1
8.0	0.000,000,01	0.000,001
9.0	0.000,000,001	0.000,01
10.0	0.000,000,000,1	0.000,1

## ANSWERS TO "QUIZ YOURSELF"

1. A. Nitrogen - Phosphoric Acid - Potassium.
2. 10% Nitrogen - 6% Phosphoric Acid - 4% Potash.
3. 100 pounds, 200 pounds.
4. 27,000 gallons to cover an acre one inch deep.
5. One cubic foot holds 7½ gallons.
6. Potential of Hydrogen ion concentration.
7. 8 million seeds.
8. 1926.
9. White stakes.
10. No.
11. Two club lengths.

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## USGA LISTS COURSE "SINS MOST FREQUENTLY COMMITTED"

A six page pamphlet recently released by the USGA to its member clubs listed the "sins most frequently committed" on a golf course. These include:

1. Littering with soft drink bottles, glasses and paper cups;
2. Climbing out of bunkers from the high side;
3. Failure to replace divots;
4. Failure to repair ball marks;
5. Turf scuffing caused by dragging feet and twisting on the green;
6. Leaning on a putter while standing on the green;
7. Using a putter to scoop the ball out of a hole;
8. Jabbing the putting surface with a flagstick or carelessly replacing the pin;
9. Deliberately hacking up the green;
10. Careless use of golf cars.