Buffalo Show Announced

Fred A. Burkhardt, chairman of the show committee of the N. A. G. A., visited Buffalo recently in company with President John Morley and completed arrangements for the Second Annual National Greenkeepers’ Show, to be held in the big ballroom and foyer of the new Hotel Statler, February 13-16, 1929. The total floor space available is about 11,000 square feet which is three times as much space as the committee had at Detroit last February. This extra space will permit the exhibition of complete fairway mowing units and sprayers, in fact every article of golf course equipment used in construction and maintenance work.

The Show room is immediately off the main lobby of the hotel and because of its size and accessibility is splendidly adapted for a Golf Show. Mr. Burkhardt states that the committee will not increase the price of space over last year and promises exhibitors the same efficient management as at Detroit. In addition to the chairman, the show committee of the N. A. G. A. consists of John MacGregor, Chicago; John Morley, Youngstown; Emil Loeffler, Pittsburgh; Al. Schardt, Buffalo; David L. Rees, New York, and Lewis M. Evans, Philadelphia. For further information address Fred A. Burkhardt, 405 Caxton Building, Cleveland, Ohio.

Watch Your Step, Greenkeepers!

I have been a Green committee chairman for several years and am greatly interested in the educational movement which you greenkeepers have undertaken.

Naturally in my travels about the country I meet and talk with many golfers and am keenly alert to their attitude regarding your association.

Frankly speaking there are unmistakable signs of wolves in sheep’s clothing who are surreptitiously endeavoring by suggestion and innuendo to split asunder the National Association of Greenkeepers of America.

Every slight difference of opinion is dwelt upon and magnified; the precepts of the organization are picked to pieces; the moral fibre of one of the greatest movements for the good of golf the world has ever seen is being undermined.

Needless to say the motives of the meddlers are selfish. Their work is so subtle it is almost impossible to put your finger on them. They appear in the guise of friends, but they are giving false advice.

Whether you believe it or not greenkeepers, you are in danger. Many an ambush is being prepared for you.

United you will stand; divided—God help you.

For your own sake forget your petty differences. Stop kickering about inconsequential things and stand together for the big objective you have begun and have faith in each other.

On this program you will win, and the great army of golfers who pay the bills will back you to the limit.

A GOLFER WHO BELIEVES IN YOU

Philadelphia Superintendents Meet

The regular monthly meeting of the Philadelphia Association of Golf Course Superintendents was held at the new Huntingdon Valley Country Club, on Monday, July 9, 1928. The day was very hot and sultry and golf for those of our members who indulge, was not a pleasure, but real work.

This course is in its second year and is in very good shape, considering some of the disadvantages of its layout. Mr. James Comito should be commended for his excellent supervision of this difficult course.

During the course of the afternoon the Pennsylvania Lawn Mower Co. gave demonstration of their fairway and green mower, under the direction of Mr. Harold Braun. Also, the Townsend Co. presented their new putting green mower of ten blades.

The meeting was called to order at 7:30 p. m. with President Evans presiding. Mr. Evans, who is incidentally treasurer of the National Greenkeepers Association, discussed their proposed meeting at Buffalo, also the exhibition of golf course equipment in connection with it.

Doctor Beale, a member of the Green committee of the entertaining club next asked for constructive criticism of his course. Mr. Keable, the club manager, took us on a personally conducted tour of their spacious club house, which is very elaborately and completely furnished in all departments.

It was voted to hold the Annual Picnic on Monday, August 20, 1928, at Forest Park, Chalfont, Pa., providing proper arrangements would be made with the owners of the park.

It was moved and seconded, that the expenses of the picnic be absorbed by our Treasury.

Meeting adjourned about 9:00 p. m.

(Signed) E. T. Young, Secretary.
Olympia Fields
(Concluded from Page 9)
of sand. Those about the greens were far enough away to permit a confident shot out and at no time did I see any really bad bunker play. Great credit is due the greenkeeping crew for keeping the bunkers in such fine shape.

On many of the holes in the woods with menacing creeks and tree-bordered fairways few bunkers were needed. For instance on Number 12, three hundred and eighty yards long, there isn’t an artificial hazard from the tee to the green. But I saw one good player take a nine so you can imagine how much trouble Nature bestowed on that hole.

All in all Olympia Fields is a testing championship course from the back tees. Give it three or four years to age up and to attain those little refinements that one sees on the older courses in the east and it will rank with anything in this country both from a scenic and a playing standpoint.

Northern Spuds

The R. H. wheel spuds have a square shoulder, easy to install or remove, club managers are pleased with long-life of these spuds. Made in many sizes to fit any type of tractor, and soil conditions. Sample spud and circular on request. (Advise make of tractors used).

R. S. HORNER - Geneva, O.
Manufacturer
Mfr. of wheel spuds, golf wheels for Ford trucks and tractors
(If your dealer cannot supply, write direct).
Market Place and Buyers' Guide

Where reputable manufacturers and dealers list and describe their products. Greenkeepers are requested to write the Market Place for any special information they desire about supplies or equipment.

Ball Washers
J. Oliver Johnson, Inc.
Stumpp & Walter Co.

Bent Stolons
Hubbard Nurseries
O. M. Scott & Sons Co.
Lyman Carrier, Inc.
Stumpp & Walter Co.

Brown-Patch Control
E. I. Du Pont de Nemours & Co.
Bayer Company, Inc.

Brown-Patch Disinfectants
E. I. Du Pont de Nemours & Co.
Bayer Company, Inc.

Compost Distributors
MacGregor Compost Distributor Co.
Toro Mfg. Company
Stumpp & Walter Co.

Compost Mixers
L. F. Mitten
Toro Mfg. Company

Drainage Engineers
Wendell P. Miller and Associates

Drain Tile
The E. Biglow Co.

Dump Carts
Toro Mfg. Company
Stumpp & Walter Company

Fairway Rollers
Toro Mfg. Company

Fertilizers
Milwaukee Sewerage Commission
E. I. Du Pont de Nemours & Co.
Stumpp & Walter Company
Golf Course Supply Company
J. Oliver Johnson, Inc.
Lyman Carrier, Inc.
Bestivall Mfg. Co.

Fairway Mowers
Pennsylvania Lawn Mower Works
Toro Mfg. Company
E. G. Staude, Mak-A-Tractor Co.

Flags and Poles
J. Oliver Johnson, Inc.
Stumpp & Walter Company

Flexible Steel Mats
J. Oliver Johnson, Inc.
Stumpp & Walter Company

Greens Mowers
Pennsylvania Lawn Mower Works
Toro Mfg. Company
Golf Course Supply Co.

Horse Drawn Mowers
Pennsylvania Lawn Mower Works

Hose
Republic Rubber Company
Philpott Rubber Company

Humus
Hyper-Humus Company

Lawn Mowers
Pennsylvania Lawn Mower Works
Toro Manufacturing Company
Stumpp & Walter Company

Lawn Sweepers
Stumpp & Walter Company

Lawn Trimmers
Pennsylvania Lawn Mower Works

Mole Traps
J. Oliver Johnson, Inc.
Stumpp & Walter Company

Mowing Equipment
E. G. Staude Mak-A-Tractor
Toro Mfg. Company
Pennsylvania Lawn Mower Works

Mower Sharpeners
Fate-Root-Heath Company
Toro Manufacturing Company


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PATRONIZE YOUR ADVERTISERS
They make this Greenkeepers Magazine possible

Green Roller
Stumpp & Walter Company

Hole Cups
J. Oliver Johnson, Inc.
Stumpp & Walter Co.
Golf Course Supply Co.

The Worthington Mower Company's showroom at 517 S. LaSalle St., Chicago
John C. Dee representative in charge is very popular with the greenkeepers of the Chicago district
Audels Guide

An interesting series of booklets designed especially for gardeners and growers, has just been issued by the Theo. Audel & Co., 65 West 23rd St., New York City. This series is issued in four volumes—the first of which is devoted to Soil Management, which is of particular interest to greenkeepers.

The author is Edward C. Vick, son of James Vick, a distinguished educator in the fields of agriculture and horticulture. In his first volume of this series of booklets he discusses the origin and nature of the soil and follows with an interesting chapter on soil life, which describes the action of the bacteria on plant growth.

Several chapters are devoted to the questions of irrigation and drainage which are illustrated with interesting and instructive drawings. Then follow some chapters on fertilizers, particularly nitrogen sources and phosphate. There is also a chapter on potash, which is required for starch formation in plants, and a chapter on the chemical fertilizers, and how plants use food. The author lays particular stress upon the action of bacteria in the soil and has an entire chapter entitled, "Bacteria's Work as a Fertilizer."

This booklet is very interesting from every angle and as a sample of the concentrated information it contains we publish herewith a table showing the nitrogen content of various fertilizing material.

<table>
<thead>
<tr>
<th>Material</th>
<th>Nitrogen Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable Manure</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Bone, raw</td>
<td>60 to 80</td>
</tr>
<tr>
<td>Tankage, general</td>
<td>80 to 200</td>
</tr>
<tr>
<td>Fish, dried and ground</td>
<td>120 to 180</td>
</tr>
<tr>
<td>Blood, dried, black</td>
<td>120 to 180</td>
</tr>
<tr>
<td>Cottonseed meal</td>
<td>140 to 160</td>
</tr>
<tr>
<td>Tankage, concentrated</td>
<td>200 to 240</td>
</tr>
<tr>
<td>Hoofs and horns</td>
<td>200 to 300</td>
</tr>
<tr>
<td>Meat scraps</td>
<td>200 to 280</td>
</tr>
<tr>
<td>Blood, dried, red</td>
<td>260 to 300</td>
</tr>
<tr>
<td>Nitrate of Soda</td>
<td>300 to 320</td>
</tr>
<tr>
<td>Calcium Nitrate</td>
<td>320</td>
</tr>
<tr>
<td>Sulphate of Ammonia</td>
<td>400</td>
</tr>
<tr>
<td>Leumasapeter</td>
<td>520</td>
</tr>
<tr>
<td>Urea, BASF</td>
<td>920</td>
</tr>
</tbody>
</table>

New Pittsburgh Supply House

We have just received notice of the opening of a new Pittsburgh supply house called the Golf Equipment Company. It is located in the House Building, Pittsburgh, with a repair shop at 2428 West Liberty Avenue.

The Golf Equipment Company is operated by A. H. Krigger and F. L. Huseman and handles tractors, mowers, rollers, sprinklers, hose, seeds, fertilizers, etc. In their West Liberty shop they repair and rebuild tractors and mowers and furnish service to their customers.

Messrs. Krigger and Huseman have been handling various lines of industrial and contractors' equipment for the past ten years and are well acquainted in the Pittsburgh district.

Bestivall—A Plant Food

Bestivall is a product of quick assimilation, making it an economical and effective agent for fostering plant growth. It is a finely pulverized fertilizer, purely organic and high in availability of its chemical contents. Its analysis shows 7% ammonia, 3 to 5% bone phosphate of lime and 1 to 2% potash. This high analysis means big returns from small applications, saving work and conserving cash. One of America's foremost chemists pronounces the advantages of Bestivall equal to those of Peruvian guano.

Bestivall, so the makers claim, must not be associated with any so-called commercial or complete fertilizer. It is more than that, as it possesses a very large proportion of rich raw manure. This is especially valuable for stimulating bacterial action in the soil, making additional plant food available.

Full particulars covering this product may be obtained from the Bestivall Mfg. Co., 1900 South Delaware Avenue, Philadelphia, Penna.
ABC of Turf Culture
by O. J. NOER

The most practical and complete treatise on the growing of turf grasses ever published. Written in simple language which the layman can understand. A textbook on turf culture and soil chemistry.

The author combines a university education on this intricate subject with an intensely practical experience in golf course maintenance work throughout the United States.

A Reference Book for Every Day Use

CHAPTER HEADINGS

Factors Affecting Turf Growth
Effect of Size and Arrangement of Soil Particles on Turf Growth
The Part Water Plays in the Growth of Turf
The Functions of Organic Matter in the Soil
Soil Composition and How Plant Food Becomes Available
The Nature of Soil Acidity and Effect of Fertilizer Materials on Soil Reaction

Lime in Sand, Soil or Water Often Overcomes Acidic Properties of Sulphate of Ammonia
Essential Plant Food Elements and How Plants Feed
Elements and Characteristics of Various Groups of Fertilizer Materials
Composition and Properties of Individual Fertilizer Materials
Principles Underlying the Practical Use of Fertilizers on Greens and Fairways

The National Greenkeeper, Inc.
405 Caxton Bldg. - - Cleveland, Ohio