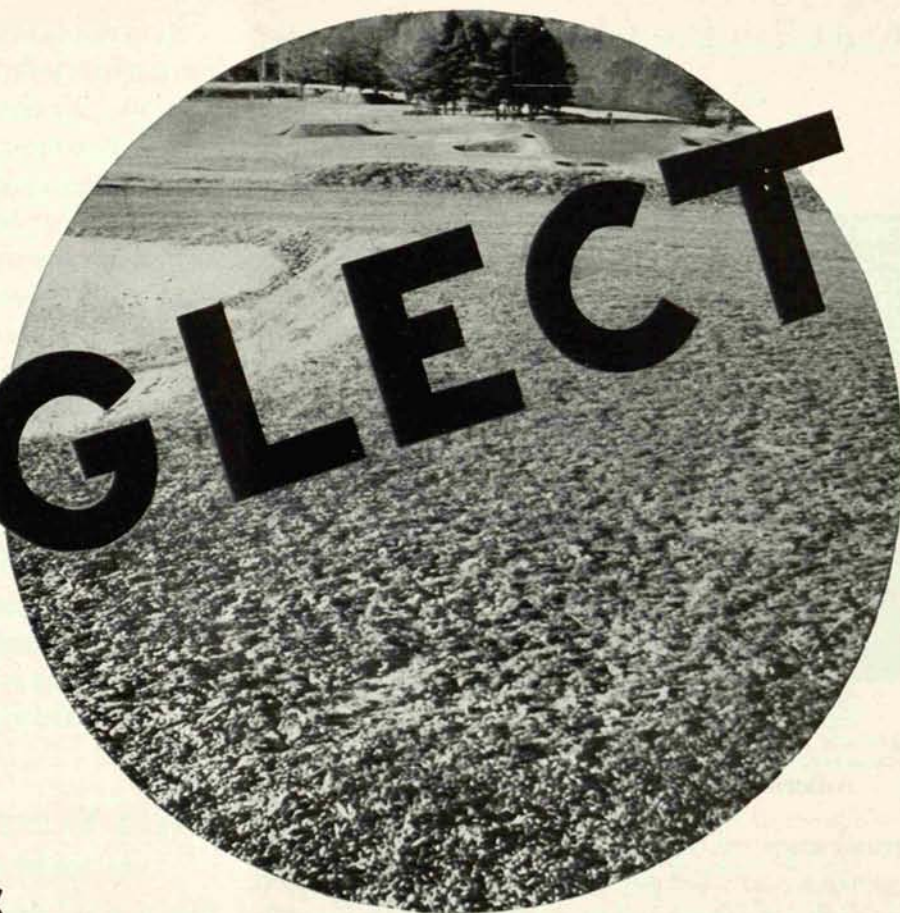


Don't NEGLECT your fairways



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Urea is recommended by the U. S. Golf Association. It contains 46% nitrogen (55.9% ammonia) in the same soluble organic form as nitrogen in liquid manure. It is both quick-acting and long-lasting, and does not leave any undesirable residues in the soil. Mr. T. O'Connell, Luzerne Villa Country Club, Hadley, N. Y., writes "I wish it were possible to show you by photographs the beautiful dark green color of my greens since using Urea."

ABOVE everything else, playing members want the condition of the course maintained—or, better, improved. It is, therefore, good news that you can now have better turf at low cost by the use of Nitrophoska.

Nitrophoska—the concentrated complete fertilizer—is four times as rich in nitrogen, phosphoric acid and potash as the ordinary complete fertilizer. One ton is equal in plant-food to four tons of ordinary fertilizer. Moreover, all of its plant-food is soluble and quick-acting, and because it is granular it is as easy as wheat to broadcast. Early spring application of 200 pounds per acre produces marvelous results on fairways—thickens turf and produces luxuriant growth. Order from your supply dealer or direct. Synthetic Nitrogen Products Corp., 285 Madison Avenue, New York. » » » » »

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Canadian President Urges Support

By W. J. SANSOM, *President,*
Greenkeepers' Association of Ontario



W. J. SANSOM
*who will represent the Ontario
Greenkeepers at the New York
Convention.*

ONCE again the arrangements have been completed and we are looking forward to meet our fellow-greenkeepers at our 6th Annual Golf Show and Convention, to be held at the Hotel Pennsylvania, New York City, January 19-22.

Thanks are due to Fred A. Burkhardt, chairman of the Golf Show, who has left no stone unturned for a successful exhibition. It by no means has been a

small undertaking. This year he has been able to secure a room for our Conference program where we can all assemble and enjoy the conference in comfort.

The needs of our golf courses are many and varied. The problem of selecting the needs of golf course equipment is by no means a light one. Through the efforts of our committee on the Golf Show it has been made possible for those who are in charge of golf course maintenance attending our Annual Golf Show and Convention to see and judge for themselves every piece of machinery made for golf course maintenance and be able to purchase or to recommend to his golf club official the equipment most suitable for his requirements with a great saving of money.

The Conference itself is sufficient for greenkeepers and club officials to attend and to give their time in the general discussion of all things pertaining to good golf course maintenance and to be able to listen to the various speakers both from a scientific and practical viewpoint.

Then too, the fraternal side of our profession makes it worth-while to attend. Meeting our fellow-greenkeepers, whereby new acquaintances are formed and old ones of a year ago renewed, meeting the other fellow whose article that he had written for the NATIONAL GREENKEEPER for the benefit of others, was interesting to read.

So to my fellow-greenkeepers I would say, make every effort possible to be at this our Annual Convention. To those who have attended in previous years and to those who have not been able to attend, think of the various committees that have worked so faithfully to make our meeting possible. Let us not disappoint them by not attending. Come and show your appreciation in a practical way which cannot be shown any better than by your presence. If each and everyone does his part success will follow.

Try hard to get your Green committee chairman to attend with you. We want your wholehearted cooperation. We have an organization to be very proud of. If there are any suggestions that you can offer for the good and welfare of our organization that is your privilege. We desire our members to be active and invite criticism of a constructive nature at all times.

Mid-West Will Spring Surprise

By JOHN MacGREGOR, *Vice President,*

The National Association of Greenkeepers of America

THERE is one event which every greenkeeper looks forward to; it is the annual convention and golf show.

When the convention is over he goes back to his job feeling that it was profitable from the standpoint of information gathered from the speakers on the program. Also, with greenkeepers with whom he has become acquainted he had made new friends and has become better acquainted with friends made at previous conventions.

The speakers' program this year is well balanced. The greenkeeper and the Green chairman cannot afford to miss it, as it will touch deeply the matters which have concerned and will continue to concern greenkeepers and Green chairmen during the year 1932.

It is a fact that most of those who have attended previous conventions make a habit of putting a certain percentage of their wages away every month so they will have the necessary funds for the next convention, except those who are more fortunate in having their clubs pay their expenses. The directors of clubs should give more thought to this as the club is to reap the benefit of whatever its greenkeeper learns.

I do not think there is one man who goes back to his club without having learned something worthwhile. He has a chance to look over all kinds of equipment and materials at the golf show, which in itself is well worth the expense. Manufacturers and dealers from near and far bring their products to the Show, where the greenkeepers can see just what they have recommended or will recommend to the chairman of the Green committee for the coming year.

The Mid-West greenkeepers have something unique for the conference, which no one can afford to miss. I cannot tell you what it is, as you will have to come to get the full benefit of it. We expect to have at least twelve members at the convention, and hope to have more. I would urge everyone to attend the convention in New York.

May I hope to meet you at the biggest convention ever.

Here We Go

By GEORGE DAVIES, *Greenkeeper*,
Big Springs Golf Club, Louisville, Ky.

THE Sixth Annual Greenkeepers' National Convention will unquestionably stand out as the most important assembly in the history of golf. Never before has a gathering in the interest of golf been as vital as this will be. No greenkeeper can afford to miss it, and what is more no golf club can afford to permit its greenkeeper to absent himself.

It is my firm conviction that any greenkeeper who absents himself, or any golf club which does not (where circumstances indicate it should) send its greenkeeper to this important educational meeting, can hardly be considered loyal to tradition of the royal and ancient game.

What is availed if weeks of study is given to the size and weight of golf balls, the kind of golf clubs permissible, and the rules of the game, if the greens are subject to an epidemic which destroys them practically over night, and which the greenkeeper is powerless to prevent, because of the failure to receive helpful advice.

* * *

The past year has proven that there is not a more dejected picture than that of a golfer with a perfect swing, and a set of perfect golf clubs, playing over a course with imperfect greens.



GEORGE DAVIES
Director of the N. A. G. A.

An epidemic attacked golf courses last year which without question robbed seventy-five per cent of golfdom of its rightful enjoyment. In many cases clubs lost eighteen greens in less than twenty-four hours, and the most proficient greenkeeper was powerless to prevent the ravages of the disease. The clubs which were not so afflicted may become victims, unless the greenkeeper can meet with those who have studied the subject thoroughly and receive the benefits of their experiences.

* * *

This convention will be so vital that no greenkeeper in the country should be anywhere else than at the Pennsylvania Hotel on January 19-22, 1932. It is not a question of not being able to afford to attend, but a question of not being able to afford to stay away.

I am confident there is not a single member of any golf club in the country who would not subscribe one dollar to a fund to defray the expenses of the greenkeeper to attend this educational meeting, where he can learn how to combat an epidemic which may overnight deprive him of his golf and healthful exercise. At this moment it is not possible for any golfer in the country to spend a dollar more wisely.

* * *

If any greenkeeper feels he cannot afford to pay

his own expenses to the convention, he is unfair to his club if he does not ask the Chairman of the Green committee to assess each member the nominal sum of one dollar or less to defray his expenses to this tremendously important convention.

* * *

We greenkeepers occupy an important niche in the structure of golf. We have an important service to perform for the club by whom we are employed. Because of the healthful exercise derived from golf we are playing an important part in building a healthy nation. Our duty well performed is the greatest contribution to a game that for individual pleasure stands without equal in the history of sport.

So, boys, let us, at this vital time, prove our worth to the golf clubs by whom we are employed. Let us show them that our interest is not primarily in drawing our pay, but in providing golf courses which will always be in splendid condition no matter what epidemic attacks them. Therefore, attend this convention without fail.

Lead Arsenate and Lecco

By CHARLES S. KESSELRING, *Greenkeeper*,
Moundville Country Club, Moundville, West Virginia

I HAVE been rather a late member in writing in to your valuable paper in regard to my course this past summer, but think you might yet want to know if I had survived.

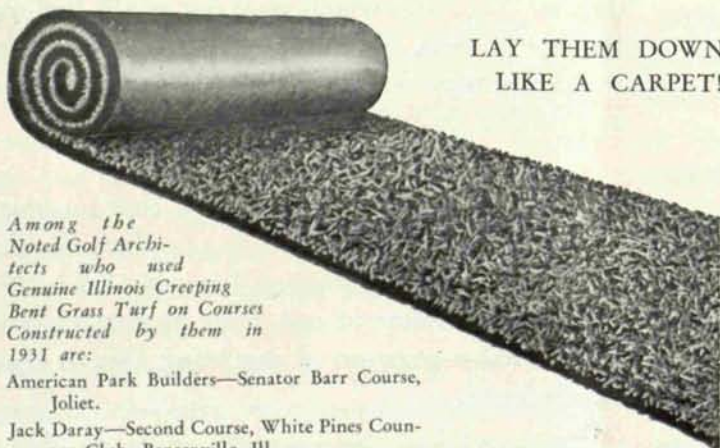
I realize this has been a trying summer to most greenkeepers due to destructible webworm, but I for one have escaped them, although the course was a fog of those millions of moths, which seemed to be the origin of the webworm. I am a firm believer, however, in a preventative rather than a cure.

The past three years of my greenkeeping I have used arsenate of lead, two pounds to one thousand square feet in each of my topdressings, which is about five times per year. Therefore, I am not troubled with worm casts. I just found three webworms on one green but they had not caused any damage to the green and the only fertilizer I use is Lecco and we have had beautiful greens, both last summer and this summer.

My greens held a beautiful color and still are as green as spring and were last summer, all through the drought. So, I feel my weak efforts have been rewarded when I realize the difficulties other courses have suffered this past season.

I hope to be at the Convention in January.

BUY YOUR GREENS READY MADE



LAY THEM DOWN
LIKE A CARPET!

Among the
Noted Golf Archi-
tects who used
Genuine Illinois Creeping
Bent Grass Turf on Courses
Constructed by them in
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Hundreds of landscape architects, golf and country clubs, greenkeepers, parks, athletic fields, estates, homes, etc., utilize Illinois Grass Company's True Washington Strain Creeping Bent in solid turf form. Furnished in rolls ready to lay down like a carpet. Our solid turf has the reputation of being extremely hardy and uniform in texture. It is mowed with a putting green mower and is hand-weeded at our nurseries. Guaranteed to grow vigorously into rich, velvety greens if properly cared for. Our scientific nursery methods of preparation and growth are unexcelled. Also sold in stolon form, packed 250 sq. ft. to the bag, same quality as the turf.

Write today for prices, samples and facts about our unusual service.

J. A. CARTER, Sales Agent - - - 75 E. Wacker Drive, Chicago, or the nurseries at

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Prominent Golf and Country Clubs using Illinois Creeping Bent Turf:

Lansing Airport Golf Club, Lansing, Ill.	Melody Farms, Lake Forest, Ill.
Lincolnvale Country Club, Valparaiso, Ind.	Lincolnshire Country Club, Crete, Ill.
Silver Lake Golf Club, Laona, Wis.	Beverly C. C., Chicago, Ill.
Marshfield Country Club, Marshfield, Wis.	Gary C. C., Gary, Ind.
Neillsville, Golf Club, Neillsville, Wis.	Morrison Country Club, Morrison, Ill.
Crown Point Country Club, Crown Point, Ind.	Byrnswood Country Club, Milwaukee, Wis.
Day Forest Estates, Glen Arbor, Mich.	Rhineland Country Club, Rhineland, Wis.
Elgin C. C., Elgin, Ill.	Deer Park Country Club, La Salle, Ill.
	Keokuk C. C., Keokuk, Ia.





JOHN QUAILL SAYS:

YOUR idea and my idea and some other fellow's idea makes three ideas which is better than one idea, especially on a golf course. If you bring an idea to New York and I bring an idea and everyone else brings an idea, OH BOY! what a load of ideas we are going to take home with us.

Tell this to your Green chairman and also tell him that this year above all others, is the time to send you to the Conference and Convention to get the latest ideas to enable you to run your course more economically.

* * *

One little idea may save your club many hundreds of dollars and it won't cost anyways near that to get that one little idea. So act now, get your chairman to say yes, tell him to come along with you and you will both benefit by it.

* * *

Did you take a good look at the program for the conference? You probably noticed how many experienced greenkeepers were on it. We had something definite in mind when we selected these men. They have all had years of experience with golf courses and they can tell you a lot of good things about running a course that a more technical and theoretical man might not be able to tell you. They will present the practical side of greenkeeping, a knowledge gained through hard work and years of actual experience on a golf course.

We also have an array of talent on the program in such men as Dr. Lipman, Dr. Sprague, Prof. Cubbon, Mr. Jacobs, Dr. Monteith, Mr. Welton, Mr. Fitts and others. These men will tell you of the more technical side of the work and each man is an expert in his line. Come and hear them and you will not go home disappointed.

* * *

There is a lot of new labor-saving equipment on the market this year and a lot of improvements on the old. Don't miss this chance to see them all under one roof and in charge of men who can tell you all about them.

Special rates have again been procured from the railroads and from the Hotel Pennsylvania. Get your reservations early and don't forget to get your convention certificate when you purchase your railroad ticket. No discount will be allowed if you do not have one, so don't forget it.

* * *

The Entertainment Committee is working overtime. ('Nuf Sed.') And Fred Burkhardt has some surprises up his sleeve. Better come and see what they are. He hasn't failed you yet, so give him your support.

See you all in New York.

Mid-West Notes

By A. L. BRANDON, *Secretary*

A MEETING of the nominating committee composed of John MacGregor, chairman; Peter Stewart, J. B. Boyd, B. A. Yoder and Fred Kruger, chose the following ticket to be voted upon at the Annual meeting, January 5: President, C. A. Tregillus, A. D. Lasker Estate; R. N. Johnson, Medinah C. C.; first vice president, Alfred Buller, Chikaming C. C.; F. O. Hawkins, Chain O'Lakes C. C.; second vice president, Peter Stewart, Lake Shore C. C.; Stanley Arendt, Meadow Grove C. C.; secretary, J. T. Langell, L. J. Norris Estate; J. B. Boyd, Sunset Ridge C. C.; treasurer, Andy Gillett, Harlem Hills C. C.; B. A. Yoder, Westmoor C. C.

1932 dues must be paid at or before the annual meeting in order to vote. Doc Roth will act as toastmaster at the banquet. The banquet costs this year will not be paid for by the association. Each member must pay for his own dinner.

Mild weather and plenty of moisture has been the prevailing mood of the weather man this fall. Most of the scars of summer turf troubles have knitted together.

The depression is making itself felt to all club treasuries. More stringent policies will be put into effect. It all goes to make the greenkeeper the keyman to his club's success or failure—a sort of Waterloo—will he emerge as the Dulce of Wellington or as Napoleon?

Indoor meetings have produced good turnouts this season and due credit must be given Doctor Harrison for his efforts in promoting questions and talks.

Send dues and official communications to 1101 Farmers Bank Building, Pittsburgh, Pa.

Any correspondence requiring the Secretary's personal attention may be sent to either 1101 Farmers Bank Building, Pittsburgh, Pa., or to —

JOHN QUAILL, Secretary
426 HIGHLAND AVENUE
WEST VIEW, PITTSBURGH, PENNA.

Address all communications relating to the
New York Golf Show—

FRED A. BURKHARDT
Chairman, Show Committee
405 CAXTON BLDG., CLEVELAND, OHIO

New Jersey Notes

By JOHN ANDERSON, *President*,
Greenkeepers' Association of New Jersey



JOHN ANDERSON

THE Greenkeepers' Association of New Jersey held its regular monthly meeting at the Newark Athletic Club, Newark, N. J., on Monday, December 7. As it was the annual meeting and election of officers besides a dinner and entertainment for the boys and their wives or sweethearts there was a large attendance. Forty-four sat down. Afterwards there was dancing, singing and music, and the cares of the golfing season were forgotten for the time being.

Our guests included Mr. R. F. Arnott, chairman of the New Jersey State Golf Association Green Section, Dr. and Mrs. Howard B. Sprague and Mr. E. E. Eval, both of New Jersey State College at New Brunswick, and Mr. Robert J. Hayes of Pelham Country Club, Westchester, New York.

The officers of the Association for 1932 will be: President, John Anderson, Crestmont Golf Club, West Orange; Vice President, William Finlay, Norwood Country Club, Long Branch; Secretary, E. Stroud, Lawrence Brook Country Club, South River; Treasurer, A. D. Burton, Mountain Ridge Country Club, West Caldwell. The retiring officers were awarded a hearty vote of thanks for steering the Association Barque through a heavy, stormy and yet prosperous sea.

The keynote at each meeting of men engaged in maintenance of golf courses in the country today is economy. 1932 will see many budgets cut and many greenkeepers worried as to how they are to maintain their courses in the best possible condition with a depleted allotment of funds at their disposal. There will be many discussions between Green chairmen and their greenkeepers to find the best possible way out of the difficulty confronting them.

It seems to me that President Morley's letter to Green chairmen and greenkeepers should answer a very pertinent question. Chairmen by sending your greenkeepers to New York City, January 19-22 to the greatest convention and golf equipment exhibition ever held in the history of the game of golf, will be doing your club a great service.

Every greenkeeper will see for himself the latest labor-saving machines for every operation; he will hear experts talk on the best methods for combating turf diseases on greens and fairways, and watering systems and fertiliz-

ing methods which have been tried out and found to be correct for his particular condition or location; all of which is going to be passed on to the clubs so that the members will enjoy the best possible golf turf at the lowest cost to them.

Greenkeepers—bring your Chairmen along with you and let them see for themselves what type of men those greenkeepers are, and show them those machines, mowers, compost distributors, and spike rollers you have been telling them about. Last but not least come to the banquet. Robert J. Hayes and his committee are supplying a banquet and entertainment the like of which can only be had in little Old New York.

Minnesota Gossip

By H. E. STODOLA, *Secretary*

THE Minnesota Association held its December meeting at Glenwood Golf Course, Minneapolis. All of the active members were present.

The business meeting was promptly called by Chairman Feser. The first subject brought up was the Minnesota short course. It will be held at the University in February. Speakers are being lined up and a worthy program arranged. It is planned to have the annual meeting and banquet at the same time. Letters will be sent to all the greenkeepers in Minnesota asking them to attend. A drive will be made to get more members.

Every member has a prospect for membership in the National Association of Greenkeepers of America and Mr. Quail, secretary, should be receiving applications soon.

* * *

Mr. Johnson, general superintendent for the Minneapolis Park Board, dropped in to pay his respects and inquire about the short course which he plans to attend.

* * *

This association is sending two special delegates to the Convention. They are chosen by blind vote. Part of their expenses will be paid out of our treasury. It is up to them to submit a complete report on their return from New York City. We are very proud to have our own Leo Feser on the Program at the Convention. District vice-president, Charles Erickson, plans on a short visit to Virginia while he is in the east. As January comes closer more enthusiasm is being created and Minnesota should have a good representative group at the Convention.

* * *

The business meeting was lively and interesting and more work is accomplished each time. The fellows get into the spirit of the thing and enjoy every minute. The Scandinavian hospitality crops out and an excellent lunch was served in the clubhouse. Candles on the table and Christmas decorations. It isn't often that a greenkeeper eats in the clubhouse and he surely appreciates it. The time is coming when the clubs will realize

that greenkeepers are gentlemen in spite of their overalls and are quite at ease in fine surroundings.

* * *

We want to thank Carl Erickson for the fine spread. He is a busy man. He works for the Park Board thirteen months a year, if you count the overtime he puts in. He is responsible for three hundred and sixty acres of park which includes an 18-hole golf course. The greens are of the sand variety but must be good because fifty-six thousands rounds were played on them this year.

Indiana Elects Officers

By CHESTER COVAL, *Secretary*

THE fourth annual meeting of the Indiana Greenkeepers' Association was held December 12, 1931, at the Lincoln Hotel, Indianapolis, Indiana, with a large number in attendance. It was a splendid meetings. Several points of interest were discussed.

One of the important events of the evening was the election of new officers, which was as follows: Carl Bretzlaff, president; Carl Coy, first vice president; Albert Esterline, second vice president; Victor George, third vice president; Chester Coval, secretary and treasurer.

We are very sorry to see Victor George give up the presidency. He has served as president for three years, doing a very splendid work. However, we are sure our new president, Carl Bretzlaff, will also be "right on the job." He has acted as secretary of the Association for two years and his work in this capacity has certainly proved to us that his whole heart is in this work.

After the meeting there was a quite a discussion of the National Convention to be held in New York, Jan. 19, 1932, and from all indications Indiana will be well represented.

Canadian News

By J. H. EVANS, *Golf Editor*
Toronto Globe

INTERESTING observations and conclusions on conditions which concerned course superintendents and greenkeepers in eastern Canada last year were contained in a paper presented to the December meeting of the Ontario Greenkeepers' association by President W. J. Sansom. Mr. Sansom's observations and conclusions were accepted by the majority of greenkeepers who attended the meeting which is the first of a number to be held until the 1932 season commences.

The condition which formed the basis of Mr. San-

som's paper to the association was the scalding of many of the better known courses during the months of June, July and August, generally accepted as being due to excessive heat and humidity, but a condition unknown in Canada until it occurred last summer. The public courses and courses of clubs with limited finances did not suffer to the same degree as the courses of clubs with large memberships who were not compelled to place a rigid restriction on expenditures for course maintenance.

* * *

Mr. Sansom's study of the conditions prevailing on the well-known courses of prosperous clubs and the courses of the struggling organizations caused him to come to the conclusion that fertilizer and climatic conditions was the combination which created the scalding. He noted that fortunately no permanent damage had been suffered by any course which had been injured to a considerable extent.

* * *

Mr. Sansom explained that the summer of 1930 was outstanding on account of lack of moisture and that many of the clubs had used fertilizer to make certain of no damage to their fairways and greens and for general reasons. The nourishment given to the courses in 1930 under the excessive heat of 1931 and the humidity decomposed. The nitrogen of the fertilizer was too great for the grass to take up, he explained.

* * *

Proceeding Mr. Sansom pointed out that an unusual explanation was required for the scalding of courses in Canada which had never suffered to any extent from scalds and had weathered similar conditions in previous years. The obvious, he said, compelled him to come to the conclusion that something more than natural climatic conditions was responsible for the trouble which confronted greenkeepers for many weeks. He believed, as a consequence, that the explanation could be found in the artificial and the natural and that organic fertilizer was the factor responsible for the damage.

* * *

Mr. Sansom noted that the Mississauga course in Toronto was severely affected by scalding. He observed that the club had been awarded the Canadian open championship and then commenced in the fall of 1930 and the spring of 1931 to prepare its fairways and greens for the tournament.

The course was laid out through a valley with a stream flowing through it, and in a position to feel the effects of scalding early if it could be charged to fertilizer. He pointed out that scalding appeared on the Mississauga club's course simultaneously with the heat and humidity.

"Another reason for my conclusion is the fact that the public courses and the courses of the clubs with limited funds were not so severely affected," he said. "This

would bear out the argument that more than nature was responsible for the scalding. The public course and the struggling organizations have not and did not use fertilizer to the same extent as other clubs because they could not afford it.

Perhaps their limited resources enabled them to escape what concerned others. Fortunately the damage was not permanent and it was repaired within a comparatively short time."

* * *

Mr. Sansom informed the meeting he expected as many greenkeepers as possible to attend the annual convention of the National Greenkeepers' Association in New York during January. He believed attendance at the convention would be worth a great deal to all greenkeepers and would assist them with their work in 1932 which might compel greater economies if financial conditions felt all over the American continent persisted.

Pacific Coast Gossip

By ARTHUR LANGTON

A FEW years ago nothing could be done with all this waste land because floods during the rainy season would sweep all before them. The construction of the Devil's Gate flood control dam has enabled Pasadena to utilize the river bed for other projects besides that of the golf course. These include a park, picnic grounds, the famous Rose Bowl where East-West football games are played on New Year's day, and ample parking space for every feature.

Greenkeeper Pfeiffer of the Los Angeles municipal course at Griffith Park has been appointed to take charge of this city's Olympic Park. This park will be the center of activities during the Tenth Olympiad which will take place in Los Angeles during the coming summer.

Pfeiffer will have acres of lawn and countless shrubs to care for incidental to the natural decorations of a stadium seating 105,000 people, a museum, an armory, a plunge, an exposition building, bowling greens, and a sunken garden.

* * *

Pacific Southwest golf courses with fairways of Bermuda grass now have less color in them than a field of hay. This is in keeping with the grass's propensity for becoming dormant in the winter time no matter how much water is thrown upon it. However, the condition seems to be a little worse this winter owing to the very sudden arrival of cool weather after an unusually hot summer.

* * *

One of L. T. Parker's greensmen at the Pasadena Country club has designed and built himself an extremely handy tool. It consists of a 30-inch handle, a

brush, and a heavy two-pronged fork. The fork is attached to one end of the handle and the brush to the other.

This implement is carried around on the power greens mower where it is instantly available for such useful duty as disposing of dirt, debris, worm casts, wet grass clippings, occasional weeds, ball marks and a host of other unsightly blemishes.

The construction of a golf course is being contemplated in Antelope Valley, California. Although this territory is reclaimed desert, it constitutes some of the finest alfalfa land in the world, and there seems to be no reason why grass will not grow there since plenty of water is available. The course is planned to be located on ground dotted with picturesque Joshua trees, which are a species of cactus.

* * *

Suspense among Los Angeles greenkeepers ended when the local chamber of commerce announced that the Hillcrest Country club would be the venue of the sixth annual Los Angeles open tournament to be played January 9, 10, and 11. This signifies that Bill Stewart's is the task of providing the various contestants with the last word in tees, fairways, and greens.

The choice of the Hillcrest course is a particularly happy one from the standpoint of sponsors, players, and spectators. Situated between Los Angeles and the beach cities, the club is easily accessible to the residents of this thickly populated area.

The Hillcrest course is of championship caliber, being the site of the P. G. A. tourney in 1929. In addition the rolling terrain over which the course has been laid affords the spectators many fine vantage points from which to view the proceedings. Finally the club grounds are securely fenced so that patrolling and the collection of entrance fees will be simplified.

* * *

Contrary to the general supposition, California golf courses which will be the scene of the mid-winter tournaments will not receive any extra polishing for the special benefit of Eastern and Northern visitors. Greenkeepers have been ordered to do nothing extra this winter except to keep a tighter hold on the club's purse strings. However, local greenkeepers are pointing with pride to the fact that this really will make very little difference because golfers have demanded that their courses be kept in championship condition at all times.

* * *

Pasadena is having a new nine holes added to its present 18-hole municipal course over which the Pasadena open tournament was played on December 18, 19, and 20. This is of special interest inasmuch as the work is being done by the Crown City unemployed. Still another nine holes is being considered. The unique feature about this course is that it is constructed on soil hauled into a former river bed, the Arroyo Seco.

The Golf Show Exhibits

Complete description of new equipment and supplies which will be exhibited at the 6th Annual Greenkeepers' Golf Show at New York City, January 19-22

John H. Graham & Co., Inc. New York City

John H. Graham & Co., Inc., 113 Chamber Street, New York City, general Sales Agents for Wilder-Strong Company, Monroe, Mich., makers of Spike Disc Lawn and Green Cultivators, and Dunham Water-Weight Lawn Rollers, will display in space 42 at the Annual National Greenkeepers' Golf Show, samples of the equipment they are marketing.



GRAHAM SPIKE DISC CULTIVATOR

Spike Disc Cultivators which were offered for the first time last season met with instant response from greenkeepers who have become firmly convinced of the necessity for turf aeration. The hand machine illustrated herewith is designed for use on putting greens, and has proven particularly useful not only for turf aeration but also for opening up the soil, thus aiding the retention of moisture, seeds and fertilizer. This hand model comes with either one handle or two handles, the latter for easier operation.

Spike Discs are offered also in two larger models for use behind a tractor and have proven to be of outstanding merit for the correction of turf troubles especially during the warm summer months. The relatively thin teeth of the Spike Disc while opening up the soil do not leave unsightly apertures nor do they harden the surrounding surface as do square or round spikes.

The Exhibitors and Where to Find Them

<i>Exhibitor</i>	<i>Space No.</i>
Toro Manufacturing Company	1
Arthur D. Peterson	2-B
Buckner Manufacturing Company	2-B
Royer Foundry & Machine Co.	2-B
Hardie Manufacturing Company	2-B
J. M. McCullough's Sons Company	2-B
Pennsylvania Lawn Mower Company	2-C
Worthington Mower Company	3
Lyman Carrier Products	6
Campbell Irrigation Company	6
Peter Henderson & Company	14
Nitrate Agencies Company	16
American Cyanamid Sales Company	17
Atkins & Durbrow, Inc.	18
Economy Irrigation Company	19
Goulard & Olena, Inc.	20
E. G. Staude Mak-A-Tractor Co.	24
Fate-Root-Heath Company	26
C. B. Dolge Company	27
O. M. Scott & Sons Company	28
Stumpp & Walter Company, Inc.	29 and 30
Milwaukee Sewerage Commission	31
Ideal Power Lawn Mower Company	32
L. R. Nelson Mfg. Company	34
Swift & Company	35
Jacobsen Mfg. Company	37
Bayer-Semesan Company	38
Dayton Irrigation System	39
Mallinckrodt Chemical Works	40
Arthur D. Peterson, Inc. (H. J. English)	41
John H. Graham & Co., Inc.	42
Fertil Soil Company	43
Standard Manufacturing Company	B
Dow Chemical Company	C
Hyper-Humus Company	D
Adalink Chemical Company	E

Dunham Water-Weight Rollers are supplied in a wide variety of hand models for use on golf greens, tennis courts, etc., and there are also three large models for use on fairways. The

absolute need for rollers during the spring months especially, is well understood. Only by rolling are frost-raised surfaces leveled and young, tender grass roots reimbedded.

Toro Manufacturing Co. Minneapolis, Minn.

For the Annual Convention and Golf Show to be held in New York, Toro will have a comprehensive and interesting exhibit.

The major item will be the new Master Seven Fairway Mowing outfit which is radically different from anything that has been shown up to this time. In the Master series the frames are directly connected to the chassis of the tractor by means of pinned sleeves.

The feature accomplished is a greatly shortened wheel base which means a greater degree of flexibility. In trial service throughout the past year the Master Seven has cut standard yardage golf course in as low as eight hours.

In addition the company will have two new types of putting green sprinklers—a rotary and revolving arm both representing the most modern types of sprinklers. Also the new "Sod-Kut" roller type hand operated sod cutter, which has a capacity of 15,000 feet a day.

Those in attendance will include J. S. Clapper, President; K. E. Goit, Sales Manager; M. R. McLaren, Service Manager; and all Toro distributors of the East and Middle West.

Lyman Carrier Products Granger, Ind.

Once again the Annual National Greenkeepers' Convention is at hand and Lyman Carrier Products is very happy indeed, to be able to exhibit the specialty line of Cocoos Creeping Bent seed, Lecco, the complete grass food and Washington Creeping Bent stolens and sod.

Cocoos Bent is recognized by leading golf clubs as the last word in fine turf. It is a fine, upright growth, having no grain or nap as commonly found in stolon turf. This characteristic naturally reduces the amount of topdressing and a putting surface can be maintained much easier and more economically as compared to stolon plantings.

Cocoos is a true creeping bent and sod may be produced either by seeding or vegetative planting but the seeding method is much easier,

quicker and cheaper. Cocoos has proven satisfactory in Canadian heavy snows, Colorado's snowless extreme cold, California's and Oklahoma's heat. In local Oregon growth it endures periods of drouth and rains. A very outstanding and reliable seed.

While serving twenty years with

the U. S. Government in the Department of Agriculture, Lyman Carrier was continually looking and searching for a complete grass diet that would fulfill all the requirements of turf needed for quick growing, long lasting and complete food. The result is Lecco, the complete grass food.

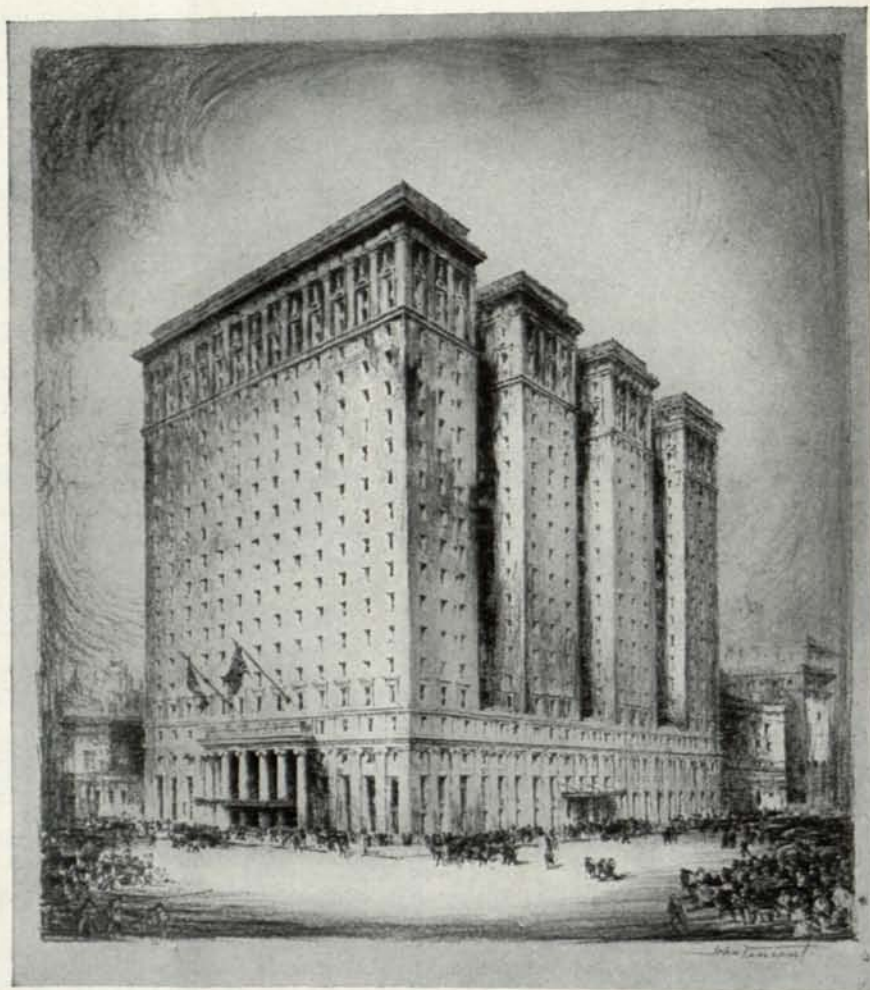
(Continued on page 24)

Convention Headquarters

of the

National Association of Greenkeepers of America

January 19th « » 22nd, 1932



HOTEL PENNSYLVANIA
NEW YORK

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