1933 Show Will Be Record Breaker

By JOHN MacGREGOR, President
National Association of Greenkeepers of America

New records both in attendance and in exhibit space should be set at our Chicago convention and Golf Show at the Hotel Sherman in February judging from the immediate and favorable response the principal golf equipment manufacturers have given to the exhibit contracts mailed this month.

This promptness on the part of the manufacturers would indicate that the coming year is being met with a feeling of optimism in all branches of the golf industry. After the havoc of the past three years, the coming season presents a rosier appearance and many of our officers and members expect our February show to witness the initial signs of a general upturn.

The reason for the rallying of exhibitors this year appears two-fold. First, it is universally recognized that throughout the depression era since 1929 orders for new equipment have been at a minimum, and many clubs curtailed all equipment expenditures. This year will bring a change. Stocks have run so low that even the smallest clubs will be forced to replenish their supplies. And at present price levels, the time for this is opportune.

A second, and even stronger factor influencing...
The manufacturers' exhibits at the Chicago Show is the realization that in the interests of economy of operation, antiquated equipment will have to be replaced. Sprinkling systems, mowers, and the scores of other forms of equipment necessary in the maintenance of a modern golf course are wasting thousands of dollars through their inefficiency. Boards of directors will be shown at the outset of the new year that going through another season with worn-out equipment will mean an unnecessary drain on the club treasury.

Thus we are looking forward to a really great show in February. And with the thorough groundwork our convention officers are laying for the association members and exhibitors here in Chicago, presence at this convention and show will prove highly profitable. The World's Fair city is expecting all of us for a pre-view of its famous Century of Progress.

Conference Program

**WEDNESDAY, FEBRUARY 1, 1933**

**EFFECT OF CUTTING ON ROOT GROWTH**
By Dr. C. M. Harrison
University of Chicago, Chicago, Ill.

**REHABILITATING OLD GOLF COURSES**
By Grange Alves, Pro-Greenkeeper
Acacia Country Club, Cleveland

**HUNTING FOR THE PERFECT GRASS**
By Professor H. B. Musser
University of Pennsylvania, Philadelphia

**BETTERING MAINTENANCE AT SMALL TOWN GOLF COURSES**
By Professor V. Stoutemyer
University of Iowa, Ames, Ia.

**MUNICIPAL COURSE MAINTENANCE**
By Harold E. Stodola, Greenkeeper
Keller Golf Course, Saint Paul, Minn.

**MAINTENANCE PRACTICES OF 1932**
By O. J. Noer
Milwaukee Sewerage Commission, Milwaukee, Wisconsin

**THURSDAY, FEBRUARY 2, 1933**

**GREENKEEPERS' VITAL IMPORTANCE TO GOLF**
By Ganson Depew,
United States Golf Ass'n., Green Section, Washington, D. C.

**FRIDAY, FEBRUARY 3, 1933**

**RECENT TECHNICAL DEVELOPMENTS IN TURF MAINTENANCE**
By Dr. John Monteith, Jr.
United States Golf Association Green Section, Washington, D. C.

**THE GREENKEEPERS WORK IN BROAD PERSPECTIVE**
By D. W. Danley, Manager
Glen Oak Country Club, Glen Ellyn, Illinois

**SOILS, THEIR COMPOSITION AND FERTILITY**
By Professor C. E. Miller
Michigan State College, Lansing, Michigan

**MACHINERY MAINTENANCE**
By Ralph Johnson, Greenkeeper
Medinah Country Club, Chicago, Illinois

**INSECTS, THEIR HABITS AND CONTROL**
By Dr. W. P. Hayes
University of Illinois, Urbana, Illinois

**DEPARTMENTAL COOPERATION**
By Alex Prie, Pro-Greenkeeper
Old Elm Country Club, Lake Forest, Illinois
Minnesota Gossip
By H. E. STODOLA, Secretary

The November meeting of the Minnesota greenkeepers was held at Minikahda club. Twenty members were present and "Charley" Erickson made them all feel at home.

Our chairman, Leo Feser told about the N. A. G. A. Directors meeting at Cleveland and asked that we give John MacGregor the support we gave to Colonel John Morley. The discussion concerned the coming Golf Show. It was decided to pass up our Short Course this year and make every effort to have a one hundred per cent representation at Chicago.

One of our men suggested that when we visit a course during a meeting we should have a demonstration of certain work. It would be interesting to see how a fellow-greenkeeper dresses his greens, how he sharpens his mowers or how he prevents brown patch.

This is the time of year when fairway fertilization is in order. I suppose there are many clubs that had to omit it this year. It is essential to fertilize each year and when you miss it, it takes a long time to catch up. A healthy, well-nourished grass can withstand drought and disease better. Try and fertilize this fall if you can.

The next meeting will be held Monday, December 12, in the Log Room of the Superior Golf Club.

Canadian News
By J. H. EVANS, Golf Editor
Toronto Globe

An extensive program was mapped out by the Ontario Greenkeepers' association for the series of monthly meetings which the association will hold in Toronto until its members are expected to resume their duties next spring. There was an excellent turnout of members for the first indoor meeting.

Each member is to contribute a paper of his own to be read at the meetings, giving his experience during the past year on operations at the reduced cost forced on him by prevailing conditions.

He is expected also to include any experience with fertilizers and with any method used for fungus, as well as the control of diseased grass. The general routine of course maintenance was also included in the topics to be discussed during the winter.

NOTICE THE 4 ARROWS?

Vice-president Sansom spent some time in an elaboration of the work of the National Greenkeepers' association. Mr. Sansom dealt with the annual convention of the association to be held in the Hotel Sherman, Chicago, early in the new year and urged all greenkeepers of the Province to attend if they could find a way to do so.

He said he felt they could learn a great deal at the convention and also declared it was their duty to support the association by attending the annual gathering.

Pacific Coast Gossip
By ARTHUR LANGTON

If inspirational surroundings mean anything on a golf course, then the players on the Lincoln Park Municipal Golf Course of San Francisco ought to be forever at the peak of their game. The course is located on the high bluffs overlooking the Golden Gate through which since the days of '49 a constant stream of ships from every nation has sailed. In the center of the course is situated the beautiful Palace of the Legion of Honor erected in commemoration of the heroes of the late war. And just outside the front portals of this edifice is a circular driveway marking the western terminus of the Lincoln Highway.

Dr. Lewis L. Thomas, chief factotum of the Gilman Hot Springs Golf Course at San Jacinto, California, claims the best nine-hole resort layout in the state, which is saying something. However his claim is backed up by such well-known professionals as Olin Dutra and Larry Gleason.

Weather Prophets Are Busy

The weather prophets on the Pacific Coast armed with scientific instruments, willow forks, rheumy bones, rabbits' feet, and what not are now indulging in the annual pastime of prognosticating the rainfall. As usual few of them coincide. The scientists, testing the temperature of ocean water, predict a dry winter. The Indians, judging by the coats of animals, say that there will be much rain. Greenkeepers can take their pick and act accordingly, but in the meantime keeping their fingers crossed.
Get This Free Booklet
Every greenkeeper and club official needs a copy of "The Putting Green." It has 40 illustrated pages of unbiased information on grasses, construction, care and planting of greens.
O. M. SCOTT & SONS CO., MARYSVILLE, OHIO

The University of California is performing commendable work in the field of weed control. The institution has put some of its scientists to work on this problem which is so vital to the interests of all growers in the state. Much experiment has been carried on to determine just what are efficient herbicides.

One of the most significant findings is to the effect that chemicals are a very poor substitute for keeping ground clean and free of weeds by mechanical means. The greenkeeper has still a long while to wait who looks forward to the day when weeds can be eliminated from his greens by dosing them with herbicides.

Cincinnati Greenkeepers' Meet
By HAROLD GREEN

The Cincinnati Golf Greenkeepers' Association held its monthly meeting at the Cincinnati Country Club, Friday night, Nov. 4. George Benvie, president and Gordon Meyers, secretary-treasurer, were re-elected to serve during the ensuing year. The members wish to thank Wayne Miller and Jim Morrison for their hospitality. The next meeting will be held at Hotel Alms, December 3.


Worthington Covers Midwest

J. B. HURLOCK, Western Manager of the Worthington Mower Company with headquarters at 517-21 So. Loflin Street, Chicago, announces the appointment of L. A. Ferguson, formerly sales manager of the Ideal Power Lawn Mower Company, as travelling representative for Wisconsin, Indiana and Michigan.

Leo F. Murray, who was with J. Oliver Johnson, Inc. for five years and last year with the Golf Course Equipment Company in Chicago, has also joined the company and will cover Iowa and Missouri.

Midwest Notes
By A. L. BRANDON, Greenkeeper
Saint Charles Country Club, Saint Charles, Ill.

No Midwest Greenkeeper's Association notes have appeared in the National Greenkeeper for sometime. We hope no one has assumed that our association has taken the rap or leaped from some fifty story building, which seems more or less the prevalent malady.

But nevertheless the Midwest has survived two bank failures, has increased its membership, has held regular and well attended meetings and is all hot and raring for the coming N. A. G. A. Convention in Chicago.

Indoor meetings will begin during the first part of December and will be held at the Hotel Sherman in Chicago and not at the Great Northern Hotel as of the past years.

Noer Drops a Gem

At the final outdoor meeting held at Medinah Country Club (President R. N. Johnson's club), O. J. Noer, the Milwaukee sage, dropped the following gem during his after dinner talk, "If greenkeeping is to continue to survive as a worthy profession, the greenkeeper must above all know his job and fulfil it."

At school we used to have a Prof, who would continually make this statement prior to all exams, "so take heed and govern yourself accordingly," and brother there were very few second trials given to members of his classes. Somehow, coupling this thought with Mr. Noer's seems to apply itself strongly to the greenkeeper's position with his club today. Possibly the writer is all wet, but we think it calls for a little individual thought anyway.

C. M. Harrison of the U. S. G. A. was also a speaker at this meeting. I understand that Doctor Harrison is on the Speaker's program at the Convention, and those in attendance at the Convention certainly should make it a major object to hear him.

Before passing over the final outdoor meeting of this season, a word of praise for the meal, and a few glasses of foamy amber colored tea.

Fred Kruger Comes Back

Certainly was glad to see Fred Kruger at the meeting for it has been some time since Fred attended his last meeting. Fred has been "more or less" between the devil and the deep blue sea all summer—first, a bank failure, then another damn bank failure, then to top it off his house on the club grounds burned to the ground (Sept. 11). Fortunately insurance covered most of the loss.
and at this writing (Nov. 13) his new home is almost completely built.

Midwest members are happy to have in its membership roster, Mr. John MacGregor, president of the National Association of Greenkeepers of America. "Mac," every Midwest member wishes you a successful and enjoyable term of office. And to you, Colonel Morley, president-emeritus, we wish return of good health and the assurance that your labors have not been in vain.

Development of Golf
A questionnaire from the new president of the N. A. G. A., who is one of America's foremost turf culture experts
By JOHN MACGREGOR, Greenkeeper
Chicago Golf Club

I have been thinking about interesting the members in the magazine. I believe the best method would be to induce them to write. With this in mind I have chosen two subjects which should prove interesting as well as profitable in the development of turf on golf courses.

(1) Do or do you not favor fairway watering? If you do, what system in your opinion would you consider the most practical, hose or hoseless? What size of mains and outlets, what type of pumps and capacity?

(2) What type of grass has proved most successful on putting greens in your district? Do you think putting green grass should be standardized in the different latitudes?

The readers of the NATIONAL GREEN KEEEPER will be interested in your accounts of these two important subjects. Differences of opinion are welcomed, as this opens a channel for discussion in future issues.

You expect your magazine to be interesting; it will be so if you do your part by starting immediately to give your views on the subjects presented, so they can be printed in the next issue of the GREEN KEEEPER.

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Obituary
Mr. L. T. Ream, a member of the Wisconsin Greenkeepers' Association, and a charter member of the National Association of Greenkeepers of America, died a short time ago at his home in Green Bay, Wisconsin. Mr. Ream from the beginning of his membership in 1927 was very active in promoting the work of the Association.

To the members of his family and to the friends of Mr. Ream, the Association wishes to express its sincere sympathy.

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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.

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Royal Products Company

Ball Washers
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G. R. Lewis Company

Ball Locators
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J. M. McCullough's Sons Company
Seaside Bent Company

Bent Seed—Cocos Creeping
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Bent Seed—Prince Edward Island
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To modify a heavy clay soil will require a great deal of sand. Yet a sandy soil will not require nearly as much clay in proportion to make it a sandy loam. A clay soil, before it can be called sandy, has to contain 80% or more of separate sand. The balance could be all clay. A clay soil on the other hand can contain 30% or more of the separate clay, the balance can be all sand; thus only by adding 10% of clay, a soil may be changed from one extreme to the other.

**Soil Nutrients**

*(Concluded from page 9)*

**Making Soils Purposely Acid**

The best practical method for making soils purposely acid is to add sulphur. Crude sulphur flour is the material to use, at the rate of 7 to 13 pounds per thousand square feet. It has no burning effect on grass, and rather quickly changes to sulphuric acid in soil. All of the sulphur is changed to acid during one growing season.

A more rapid but expensive method is to add alum (aluminum sulphate) up to 6 pounds per thousand square feet. Alum is already acid and is at once effective. In buying this material, be sure to specify aluminium sulphate. The alum of trade contains potash, which ought to be left out of the picture. One might even use ammonium alum for the nitrogen contained. This would acidify soil just as much as ordinary alum.

Much the same condition applies in acidifying soil as in liming, namely that the acid-forming substance affects only that part of the soil with which it comes in contact. Such a condition no doubt accounts for the failure of continued sulphate of ammonia treatments to eliminate clover from greens. The acid has little or no effect on soil a few inches down where the clover roots thrive.

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**Markets Place and Buyers’ Guide—**

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- Toro Mfg. Company
- Pennsylvania Lawn Mower Works
- Worthington Mower Company
- Ideal Power Lawn Mower Co.
- Roseman Tractor Mower Co.
- Jacobsen Mfg. Company

**Power Putting Green Mowers**
- Jacobsen Mfg. Company
- Worthington Mower Company
- Ideal Power Lawn Mower Co.

**Rakes**
- Pennsylvania Lawn Mower Works

**Rhode Island Bent Seed**
- A. N. Peckham

**Rollers (Hand)**
- John H. Graham & Co., Inc.
- Stumpp & Walter Company

**Rollers (Fairway)**
- John H. Graham & Co., Inc.
- Toro Mfg. Company
- Worthington Mower Company

**Rollers**
- Stumpp & Walter Company
- Toro Mfg. Company
- Worthington Mower Company

**Rough Mowers**
- Toro Manufacturing Company
- Pennsylvania Lawn Mower Works
- Worthington Mower Company
- Ideal Power Lawn Mower Co.
- Roseman Tractor Mower Co.
- Jacobsen Mfg. Company
- Philadelphia Toro Company
- International Harvester Co. of America
- Gravely Mower & Cultivator Co.

**Seaside Bent**
- Seaside Bent Company

**Seed**
- Henry A. Dreer
- O. M. Scott & Sons Co.
- J. Oliver Johnson, Inc.
- Stumpp & Walter Co.
- Peter Henderson & Co.
- J. M. McCullough’s Sons Co.
- Illinois Grass Co.
- Arthur D. Peterson
- Henry A. Dreer
- Philadelphia Seed Co.
- Seaside Bent Company
- Lyman Carrier

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- Hardie Mfg. Company
- Friend Mfg. Company

**Sprinklers**
- L. R. Nelson Mfg. Company
- Buckner Mfg. Company
- Economy Irrigation Company
- Campbell Irrigation Company
- Double Rotary Sprinkler Co.
- Dan F. Ryan

**Stolons**
- O. M. Scott & Sons Co.
- Hubbard Nurseries
- Lyman Carrier

**Sulphate of Ammonia**
- Synthetic Nitrogen Products Corp.

**Tee Markers**
- Standard Mfg. Company

**Tee Mowers**
- Toro Manufacturing Company
- Pennsylvania Lawn Mower Works
- Worthington Mower Co.
- Ideal Power Lawn Mower Co.
- Jacobsen Mfg. Company

**Tee Stands**
- Worthington Mower Co.

**Top Dressing**
- Hyper-Humus Company
- The Ohio Humus Company
- Atkins and Durbow, Inc.

**Tractors**
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- International Harvester Co. of America
- Ideal Power Lawn Mower Co.
- Roseman Tractor Mower Co.
- R. S. Horner
- Gravely Mower & Cultivator Co.

**Tractor Wheels and Spuds**
- R. S. Horner

**Trees**
- Blue Ridge Evergreen Supply Co.

**Turf Fertilizers**
- Armour Fertilizer Works

**Urea**
- Synthetic Nitrogen Products Corp.

**Water Pipe**
- MeWane Cast Iron Pipe Co.

**Worm Eradicators**
- Peter Henderson & Co.
- C. B. Dolge Company
- Reade Mfg. Company

**Soils**

*(Concluded from page 5)*

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