

## MIDWESTERN SHADE TREE CONFERENCE

The 9th annual meeting of the Mid-Western Chapter of the National Shade Tree Conference will be held February 17-18-19, 1954, at the LaSalle Hotel, Chicago, Illinois. Organized to encourage the planting of more shade trees, and to promote within the trade better observance of approved arboricultural practices, membership is composed of commercial arborists, city foresters, park superintendents, nurserymen, educators, research scientists and others interested in the propagation and care of trees and ornamental shrubs.

The convention is open to all who wish to attend. Registration of delegates will begin at 8:30 A. M., Wednesday, February 17, and the first paper on the educational program will be presented at 11:00 A.M. An attendance of more than 300 is anticipated.

The program is directed toward discussion of problems primarily of concern to arborists in the mid-west, but included also are topics of general interest to those who care for trees in any section of the country. Following presentation of each paper there will be a short discussion period. An additional opportunity for questions from the audience will be provided in the "Questions and Answers" session Friday morning. Various tools and supplies used in arboricultural work will be on display during the convention, with representatives of the participating firms and companies on hand to explain their uses. A special program has been arranged for the ladies.

Included on the educational program are the following topics and speakers:

"Dutch Elm Disease — Elm Phloem Necrosis — Up To Date" Panel Discussion - J. C. Carter, Plant Pathologist, Illinois Natural History Survey, Urbana, Illinois.

Richard J. Campana, Assistant Plant Pathologist, Illinois Natural History Survey, Urbana, Illinois.

L. L. English, Entomologist, Illinois Natural History Survey, Urbana, Illinois.

"Transmission of the Oak Wilt Disease" — W. H. Bragonier, Head of the Department of Botany & Plant Pathology, Iowa State College, Ames, Iowa.

H. M. Harris, Head of the Department of Entomology, Iowa State College, Ames, Iowa.

"Insecticide Hazards — Facts and Fallacies" - George C. Decker, Head of the Section of Economic Entomology, Illinois Natural History Survey, Urbana, Illinois.

"Control of Scale Insects" — E. F. Herrbach, Horticulturist, Standard Oil Company, Chicago, Ill.

"Advantages, Disadvantages and Methods of Licensing Arborists" — Paul E. Tilford, Executive Secretary, National Arborist Association, Wooster, Ohio.

"The Arborist and the Client" — Norman Armstrong Tree Service, Inc., Chapel Hill, North Carolina.

"Techniques of Gaining Favorable Publicity" — Ulmer G. Turner, News Commentator, American Broadcasting Company, Chicago, Illinois.

"Tree Planting for Climate Control" — L. R. Quinlan, Professor of Landscape Design, Kansas State College, Manhattan, Kansas.

Scheduled tentatively are also the following topics, "Iron Sequestrene in Treatment of Trees and Shrubs;" "Brush Control on Right-Of-Ways;" and "Plant Materials for the Home Grounds." Speakers on these subjects will be announced.

## 25th NATIONAL TURF CONFERENCE AND SHOW

The 25th National Turf Conference and Show, sponsored by the Golf Course Superintendents Association, held at the Bayfront Auditorium, Miami, Florida, January 3 thru 9, was one of the best and most successful in the history of the organization, and we wish to congratulate the officers and members who worked so hard to make it the success it was. The exhibits were excellent and of great interest to all who attended and the Educational Conference was most interesting and educational. Registration was over 900.

The Association elected the following officers and directors for 1954, President-Norman C. Johnson, San Jose CC, Jacksonville, Florida. Vice-President-William Beresford, Los Angeles CC, Los Angeles, California. Directors, Paul E. Weiss, Lehigh CC, Allentown, Pa., Earl S. (Smiley) Bell, Armour Fields GC, Kansas City, Missouri, John A. Gormley, Wolfert's Roost CC, Newtonville, N. Y. The holdover directors are, Robert Williams, Andrew Bertoni and Colin Smith.

The 36 hole golf championship, which attracted over 100 golfers to the Miami Springs and Plantation courses was won by Marcus List of the Glengary CC, Holland, Ohio with a medal score of 75-77 - 152. He received the Superintendents trophy awarded by the USGA. The Pro-Superintendents trophy, presented by Herb Graffis, was won by Jack Thompson, Tippecanoe CC, Canfield, Ohio. Thompson won in a play-off with Joe Reposkey who also carded 146. The Senior championship for the O. J. Noer trophy was won by Perry Del Vecchio, Greensburg, Pa., CC with 150. The team championship was won by Jack Thompson, Lorn Parrish, Mike Sopko and Howard Simmons of the Cleveland district.

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## WATER QUANTITY AND RATE OF FLOW

One acre inch of water contains 27,080 gals. If you have a pond that measures 208.7 ft. this would be equal to one acre or 43,560 sq. ft. If this pond was 15 inches deep, you would have 15 acre inches of water or 27,080 gals. times 15, or 416,200 gals. in your reservoir. If this pond is stream fed and your rate of flow in this stream is one cubic ft. per second, you would be supplying one acre inch per hour, or 450 gals per minute to your pond. 27,080 gals. of water is the average amount used in your home over a 5-month period.

## HEAD, PRESSURE, POWER AND ENERGY

If your water requirement of irrigation system is 300 gals. per minute and suction lift is 12 ft. and the pressure gauge at pump house is 80 lbs. per sq. inch. (p.s.i.) and the 18th green at clubhouse is 69 ft. elevation above pump house, your pressure at the 18th green outlet would be 50 lbs. p.s.i., i.e. if 2.31 ft. equals 1 lb. p.s.i., then 23 ft. equals 10 lbs. p.s.i., and 69 ft. equals 30 lbs. p.s.i. This means that your pressure loss in 69 ft. is 30 lbs. p.s.i., or 50 lbs. p.s.i. at the 18th outlet.

For practical measures, if electricity costs .03 cents per Kilowatt hr. and you operate this pump of 30 H. P. it would cost you .03 cents time 30 H. P., or 90c per hr.

-Northeastern New York Golf Course Superintendents Association Bulletin