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A high quality, clay free, 100% quartz sand, Granusil is washed, dried and screened to meet rigorous U.S.G.A. specifications.

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HOLE NOTES

Official publication of the MINNESOTA
GOLF COURSE SUPERINTENDENTS' ASSOCIATION.

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PEOPLE

... who say they are willing to meet
you halfway often are poor judges of
distance.

QUICKIE

When a broker tells you we're in a
new bull market, it's very important to
determine what is new and what is bull.



FROM THE PRESIDENT'S DESK

LARRY MUELLER

We have another very successful Annual
State Conference behind us and now we
turn our attention to the National Confer-
ence in New Orleans to be held the first
week of February.

We are fortunate to have a qualified candi-
date from Minnesota running for National
Director this year. The Minnesota Associ-
ation will help Jim Lindblad sponsor a
hospitality room at New Orleans to further
his campaign. Good luck, Jim. We are all
pulling for you!

Best wishes for a speedy recovery to our
long time members, Harold Stodola and
Gerald Bibbey who are now at home after
being hospitalized.

We will be planning our Research Program
for 1982 in the near future and would
certainly welcome your input on areas that
are of concern to you. Contact John Nylund
who is our Research Chairman or any director
with your ideas.

Have you been a member of the M.G.C.S.A.
for twenty-five years or longer and not
received a twenty-five year plaque? If so,
please contact me. We want to present
twenty-five year plaques at the '82 Annual
State Conference.

I would like to encourage each of you to
wear your name tag at the meetings. With
the size of our organization today, it is
difficult to know everyone and the name
tag certainly is helpful. If you do not
have the new green name tag and would
desire one, please contact Kerry Glader,
our Membership Chairman, and he will have
one made up for you at a cost of \$2.00.

Hope to see you in New Orleans!

From The Arrangements Chairman

FUTURE M.G.C.S.A. EVENTS

JANUARY 31-FEBRUARY 5, 1982	G.C.S.A.A. ANNUAL CONFERENCE AND SHOW, NEW ORLEANS
MARCH 9	M.G.C.S.A. MINI-CONFERENCE, TOWN & COUNTRY CLUB, ST. PAUL
APRIL 12	MANKATO COUNTRY CLUB, MANKATO, MINNESOTA
MAY 10	DATE IS OPEN
JUNE 14	DATE IS OPEN
JULY 12	M.G.C.S.A. FAMILY PICNIC, BRAEMAR PARK, EDINA
AUGUST 9	VOYAGER VILLAGE, DANBURY, WISCONSIN (TENTATIVE)
SEPTEMBER 19	M.G.C.S.A. ANNUAL TOURNAMENT, BRACKETT'S CROSSING, LAKEVILLE
OCTOBER 11	MINNESOTA VALLEY CLUB (TENTATIVE)
NOVEMBER 8	HANSON HOUSE
DECEMBER 1,2,3	M.G.C.S.A. ANNUAL CONFERENCE, SHERATON INN N.W.

If your club would consider hosting a monthly meeting in 1982 or 1983 please contact Mark Smith, Arrangements Chairman at: 2001 Flag Ave. So., St. Louis Park, MN 55426-612/544-4474.

Please note that the above mentioned dates may not be accurate so please check the monthly mailings on the individual monthly meetings.

WIN A FREE LUNCH OR DINNER AT EACH MONTHLY MEETING:

The Board of the M.G.C.S.A. has approved a program to encourage pre-registration and the wearing of name tags at monthly meetings. The drawing for the free lunch or dinner will be made only from those names that have pre-registered. The lucky name drawn must then also be wearing his or her name tag in order to collect the lunch or dinner. The winner will be given his or her money back that was paid for the meeting. Each of us had better find that missing name tag or ask to have one made. The money returned could be extra drinking money or help pay for that fuel going and returning from meetings.

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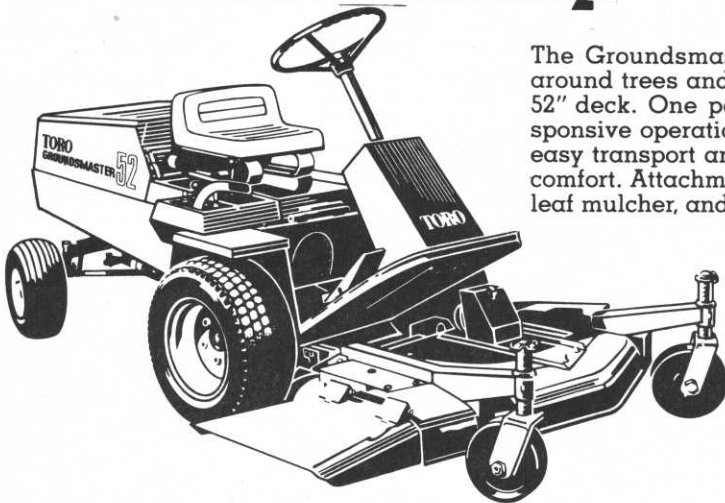
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Groundsmaster 52[®] **The Professional** **for maneuverability.**



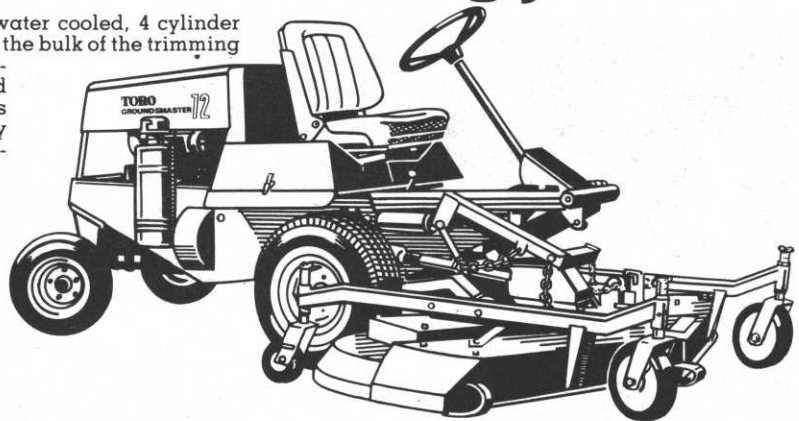
The Groundsmaster 52[®] offers wide cutting ability. It trims tight around trees and other obstacles with the offset, forward mounted 52" deck. One pedal hydrostatic drive for responsive operation, hydraulic deck lift for fast, easy transport and cushioned seat for operator comfort. Attachments include 48" rotary broom, leaf mulcher, and vacuum.

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- *Leaf Mulchers

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The Nick Dunn Turf Conference Report

I would like to briefly recap the Annual Conference held December 2, 3 and 4 at the Sheraton Inn N.W.

The Wednesday attendance was up substantially from previous years. Registered for Wednesday were 196 individuals. Maybe this was because of the recertification for pesticide applicator licenses.

I would like to make sure everyone understands that the attendance for recertification qualifies for 1982 licenses. Many of you have attended other seminars or the Horticulture Days at the University, thus duplicating the requirement for recertification for 1982. That is due to our starting the program this year. We intend to continue this feature of our Annual Conference in future years. This would enable you not to have to make special efforts to attend another seminar or Horticulture Industry Days at the University.

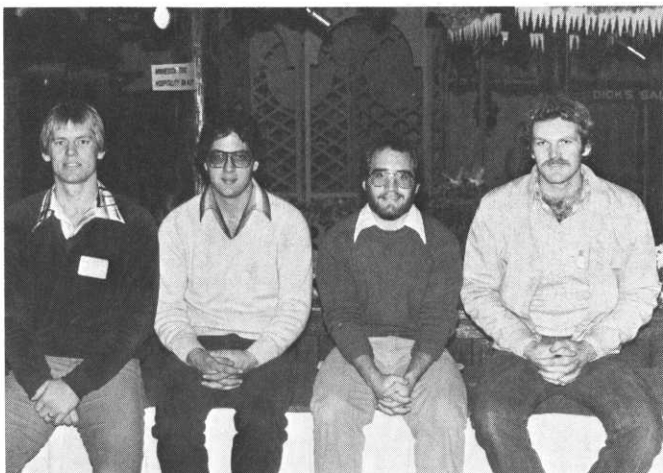
Thursday started with a prayer fellowship with Jeff Siemon as the featured speaker. Registration for Thursday was 226 individuals. Featured speakers on Thursday included Dr. Clinton Hodges, Iowa State University and Dr. Joe Duich, Penn State. The Bull Session was again a well attended function of our conference on Thursday afternoon.

Thursday evening our annual banquet attendance was good with many outstate members attending the first banquet ever, due to the change from Friday to Thursday, and many of our speakers were able to be our guests at the banquet. I hope everyone in attendance found the Brandywine Singers entertaining and enjoyable.

Friday's session found 202 individuals registered for the day. Featured speakers for the day included Dr. Joe Duich, Dr. Don White, Dr. Ward Stienstra, Stanley Zontek and, of course, our expert irrigation panel of superintendents. As in the past Friday ended with a drawing for a \$175 gift certificate to be applied to the trip of choice by the winner. The prize this year went to Richard Odden of Pebble Lake Golf Club, Fergus Falls, Minnesota.

Following is a breakdown of the different categories of persons registered for the conference:

SUPERINTENDENTS AND ASSISTANTS - 154	TURF STUDENTS - 16	NON-MEMBERS - 21
COMPLIMENTARY - 2	GREEN CHAIRMEN - 2	SUPPLIERS - 31
		SPEAKERS - 13
		TOTAL - 239



APPROVED. Welcome new members! Left to right, Brian Evenson, Steve Christenson, Rick Traver and Jon Burke.

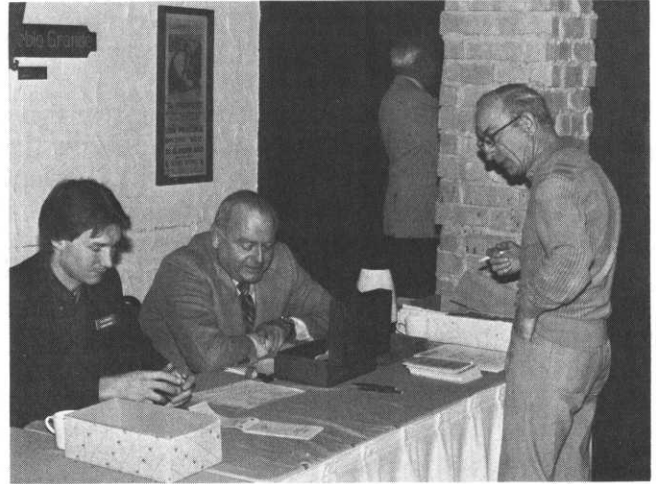


ELECTED DIRECTORS. Ready to go to work are, left to right, Kerry Glader, Jim Wodash and Mark Smith.

TURF CONFERENCE HIGHLIGHTS



CELEBRITIES. Chairman Nick Dunn, right, welcomes Dr. Joseph Duich of Penn State at the banquet.



REGISTRATION. Tim Commers, seated left, and Milt Wiley, right, efficiently checked in the participants.



FULL HOUSE. All attention is focused on Howard Krosch from the Department of Natural Resources.



INSPIRATION. Viking Jeff Siemon was guest speaker at Prayer Breakfast. Our thanks to Jeff.



HANDSOME. Paul Boizelle, left, of the G.C.S.A.A. and Stan Zontek of the U.S.G.A. put on their best smiles.



ACCOMPLISHMENT. Dennis Hendrickson, left, presents CGCS award to Scott Hoffman, Madden's Pine Beach G.C.

GREEN CLIPS

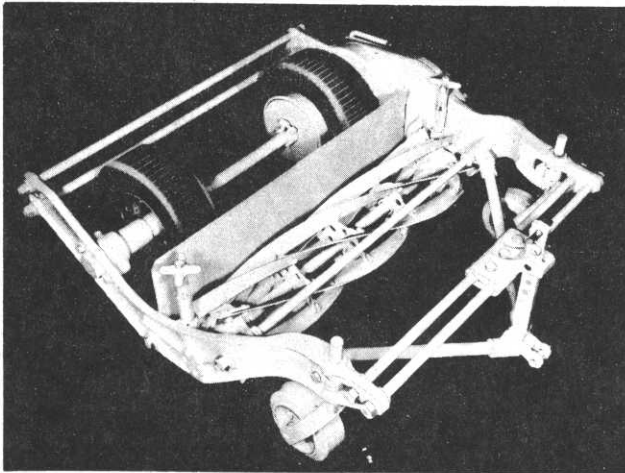
CLIP 1: NATIONAL DIRECTOR: Congratulations to Jim Lindblad on his nomination to the slate of directors for the G.C.S.A.A. Now let's all get behind him and campaign hard in New Orleans for his election.

CLIP 2: MULTI-COPIES: This is the last month more than one copy of HOLE NOTES will be sent to any member. If you require more than one copy, you must notify the office prior to the February issue.

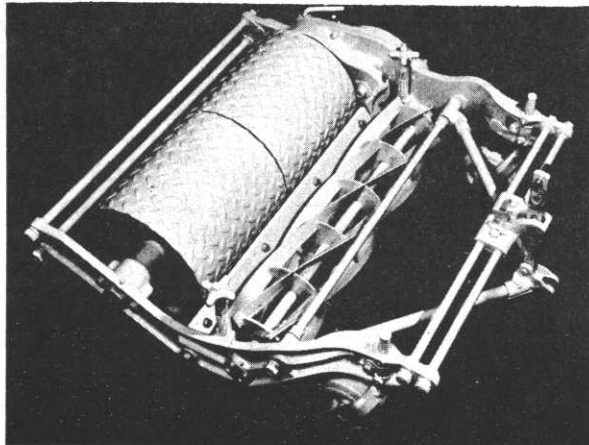
CLIP 3: NEW DIRECTOR OF EDUCATION: Jim Prusa, superintendent of Pasatiempo Golf Club in Santa Cruz, California, will assume his new duties as G.C.S.A.A.'s Director of Education on January 4, 1982. Jim replaces Palmer Maples, Jr., who is now the superintendent of Summit Chase Country Club, Snellville, Georgia.

Jim received his Bachelor of Science degree in horticulture with emphasis on golf turf from California State Polytechnic University in Pomona and is now completing requirements for a Master's degree in business administration.

CLIP 4: MUELLER APPOINTS 1982 COMMITTEE CHAIRMEN: ANNUAL CONFERENCE, Dale Caldwell and Irwin Fuller; ARRANGEMENTS, Mark Smith; BYLAWS, Jim Wodash; EDITORIAL, Nick Dunn; EDUCATION, Dale Caldwell and Irwin Fuller; ENTERTAINMENT, Mark Smith; FINANCE, Don Lindblad; HISTORIAN, Larry Mueller; INDUSTRIAL AND PUBLIC RELATIONS, Dennis Hendrickson and Larry Mueller; INSURANCE, Nick Dunn; MEMBERSHIP, Kerry Glader; NOMINATING, Dennis Hendrickson; SCHOLARSHIP, ECOLOGY & RESEARCH, John Nylund; TOURNAMENT, Dennis Hendrickson.

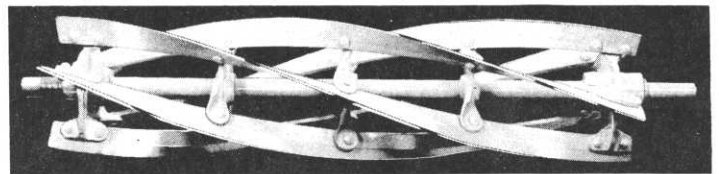


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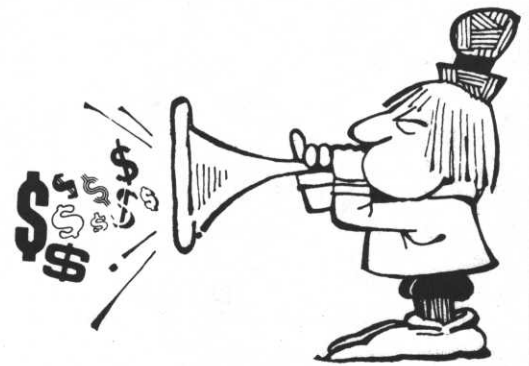
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WATCH FOR



1982

WINTER BOOKING PROGRAM

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Pruning – Why, When and How

WHY

by DAVID L. HENSLEY

Pruning is an integral part of the maintenance of any landscape site. Correct pruning helps maintain vigorous plants and can aid the supply of additional energy for development of flowers, fruit and limbs.

Pruning is most generally conducted to control the size of plants and to bring overgrown plants back into bounds. Extreme or radical pruning to control size can be eliminated by correct plant selection. Choose plants that "fit" the landscape purpose. Don't try to make a large growing plant fill the need by extensive annual pruning.

Pruning aids the survival chances of newly planted trees and shrubs by compensating for reduced root systems. The tops of bare-root plants should be pruned back 1/3 to 1/2. Balled-and-burlapped and container-grown material require less severe thinning but still may require some reduction of the leaf surface.

Pruning aids in maintaining the health and appearance of the plant. Minor insect and disease infestations can often be controlled by removing the affected portions. Damaged and dead wood should also be removed.

Future flower and fruit development can often be stimulated by correct pruning. Removal of shrivelled and faded flowers and fruit allows more available carbohydrates for development of next season's buds.

Personal and property damage can be reduced or avoided by removal of lower hanging and dangerous limbs. Other maintenance procedures, such as mowing or spraying can also be speeded or aided by removing low limbs.

WHEN

Timing is one of the most important factors in correct pruning and is usually based on the flowering and fruiting habit of the plant. Trees and shrubs that bloom before the end of June produce flower buds on the previous season's growth. Plants, such as Magnolia sp. and Forsythia sp., should be pruned immediately after flowering. Plants that flower after the end of June, such as Buddleia sp. (Butterflybush) and Hibiscus syriacus (shrub althea), form flower buds on the current season's growth. These species should be pruned in the winter or early spring. Plants valued for their fruit should be pruned in the winter or early spring after the fruit drops. A maintenance schedule which divides plants into pruning groups based on flowering or fruiting will aid the operation and reduce confusion.

Everygreens, both broadleafed and narrowleafed, can be pruned any time the wood is not frozen. Pruning of most conifers every two or three years is essential for size control, since new growth seldom arises from older wood. The shoots of coniferous evergreens, such as Pinus sp. (pine) can be pinched back in the spring to thicken these plants. Pinch the candle back about half way when the new needles are about 1/4 inch long.

Most shade trees should be trained while young. Establish alternate branching and remove weak branch angles or crotches to prevent problems in later years. Shade trees are generally pruned in late winter or early spring. Some trees, such as Ulmus sp. (elm), Betula sp. (birch), Cornus sp. (dogwood), Acer sp. (maple) and Cladastrus lutea (yellowwood) are known as "bleeders". These plants may be best pruned in summer or fall. The sap dripping from spring wounds will not harm the plant, but may be objectionable to clients. Late summer pruning should be avoided. New growth may be encouraged and will not be sufficiently hardened to prevent winter damage.

CONTINUED NEXT MONTH

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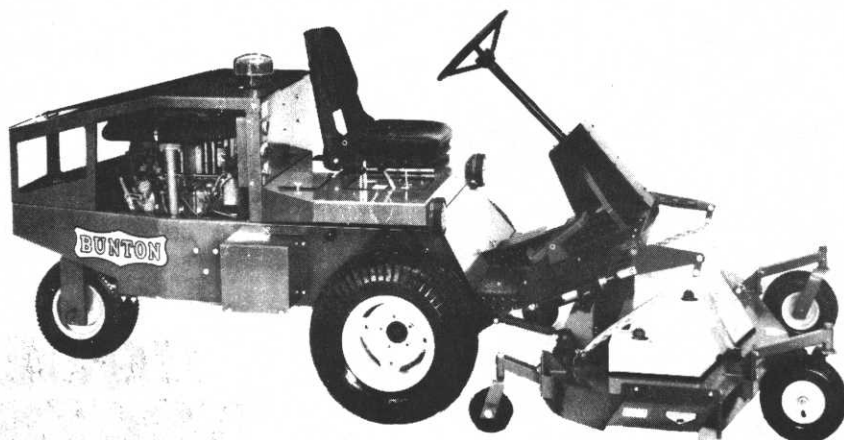
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