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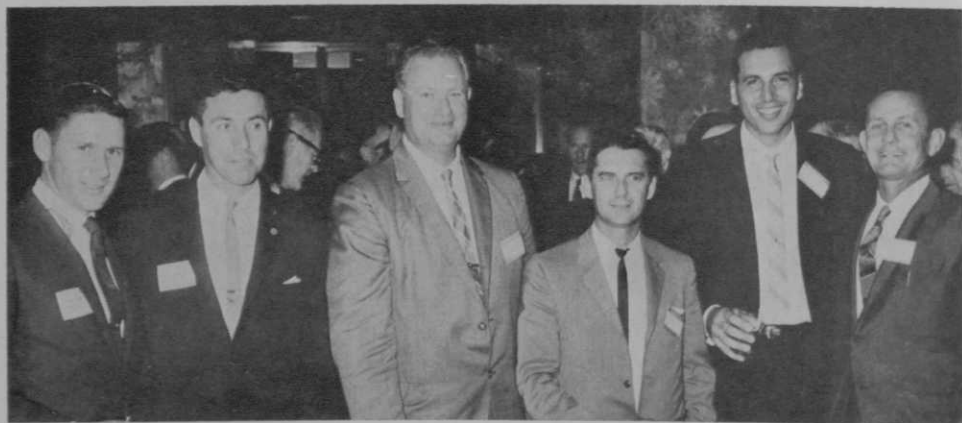
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Surrounded by charming women at a GCSA luncheon are Earl F. Yesberger (seated) and Bill Fannin. The ladies (from left) are: Mrs. William Fannin, Mrs. Ralph Locher, wife of Cleveland's mayor, Mrs. Walter Ward, Mrs. Yesberger and Mrs. Charles Winch.



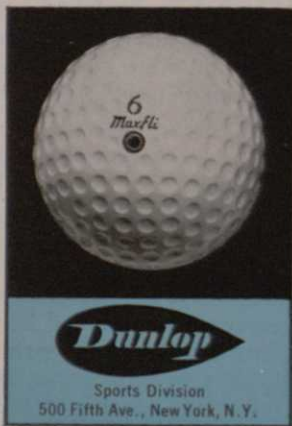
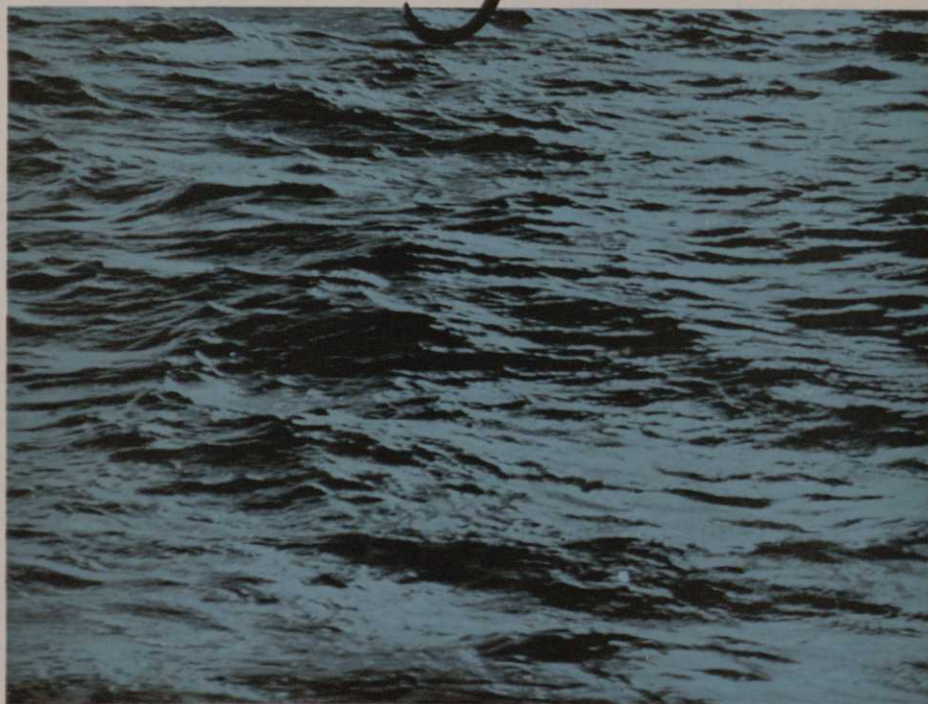
Here is a happy band of relaxed greenmasters at the Hospitality Hour, held on Feb. 7 . . .



. . . and this group of golf writers seems to be taking all things in stride at the GCSA press luncheon.

carry

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system was put in a little more than a year ago, Don Wright, supt. of the Cincinnati club, took approximately 1,500 photos of the installation. He is donating 150 of these to the GCSA library. The 25 or so slides that Wright showed on the education program were exceptional examples of photographic art. In addition, Wright is an accomplished enough speaker to give travelog appeal to a workaday project such as an irrigation installation.

\$10,000 Saved

He estimated that his club saved more than \$10,000 in a year's time in labor and water in switching from manual to automatic irrigation. More than five miles of pipe, 50 miles of wire and 400 sprinkler heads went into the Camargo system. There is an 80-foot separation between heads, which run exactly down the center of the 33-yard wide fairways at Wright's club. Five pop-up heads, uniformly spaced, cover each green.

Wright supervised the irrigation construction project, but he entrusted the electrical installation to the best engineer he could hire. He advised supts. who are planning going over to automatic systems to do likewise, pointing out that this amounts to long range economy. Camargo's water system operates off two booster pumps and is controlled through a 12-switch panel.

Appearing along with Wright on the automatic irrigation panel were Walter Boysen, who described Western irrigation methods, and Tom Topp, who started out to tell how watering is carried on in the East, but got wrapped up in a humorous but woeful tale of an outside contractor who wasn't able to find Topp's Bellevue course for six months. "Maybe the poor guy did get lost," Tom remarked. "We're pretty far out in the country."

Sold on Automatic

At Sequoyah CC, Boysen applies from $\frac{3}{4}$ to 2-inches of water a week, operating his system daily for as much as 12 hours. He advised against installing more than from three to five heads on a single control valve, and suggested that each side-hill outlet should be hooked up to its own separate valve. Poor results are obtained in installing automatic systems,



Kansas City delegation used heart to remind GCSA members they'd be in KC on Valentine's Day in 1966.

Boysen said, if care isn't taken in the vertical placement of heads, keeping them below the ground surface to avoid damage. Good drainage also should be insured in the immediate areas surrounding sprinklers.

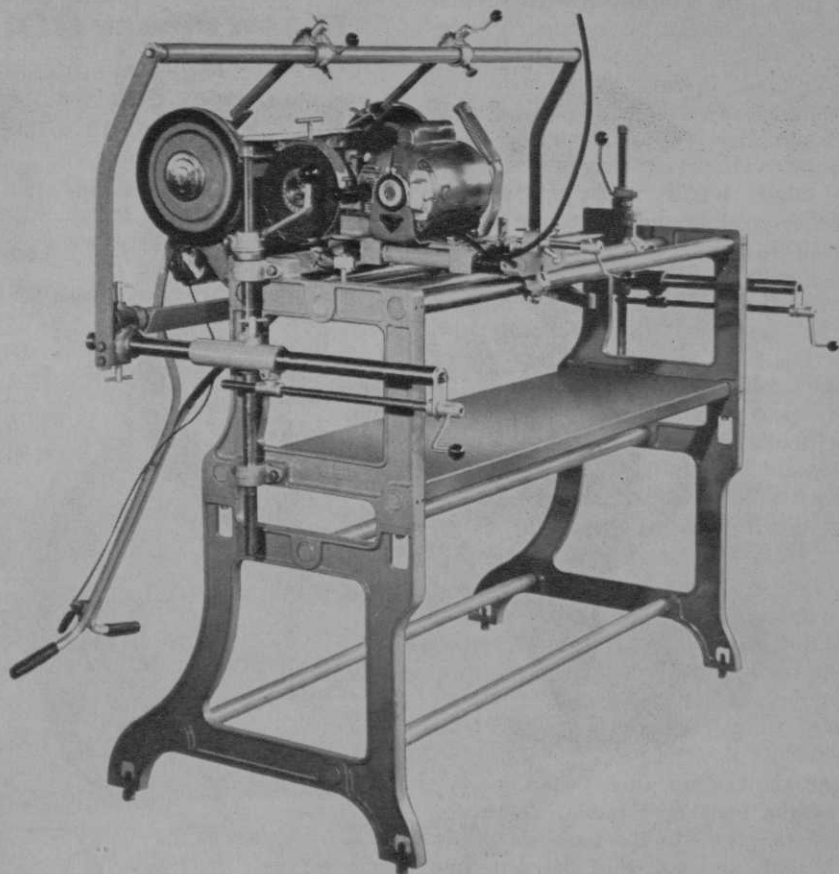
Of special interest to the audience were Boysen's remarks on using the irrigation system to apply fertilizer. He advised against it, saying that it is only about 60 per cent efficient. In many instances, fertilizer is stacked up in one spot while another may not be touched.

The Sequoyah greenmaster concluded his remarks by saying, "You'll never go back to manual watering after you have installed an automatic system. You may be discouraged at first with the new system, but allow for an 18-month breaking-in period and your troubles will be behind you."

Get A Firm Contract

When Tom Topp finally got his automatic system installed, he was well pleased with the way it operated. Money was saved on both water and labor, and it was only necessary to set the controls every two weeks and let the system carry on thereafter. Bellevue's system is geared to give a $\frac{1}{2}$ inch per hour precipitation rate and operates 40-night hours each week.

In preparing to make an installation, Topp said that several things should be



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taken into consideration. Course topography should be carefully plotted so that natural obstacles can be avoided or minimized. The entire irrigation route should be staked out in advance to speed up the building of the system once it is undertaken. Every effort should be made to avoid widespread damage to turf. There should be as much pipe prefabrication as possible and great care should be taken to select the proper sprinkler heads. Finally, and Topp emphasized this with some irony, if the installation work is to be contracted, the club and supt. should insist on an iron-clad agreement with the outside company.

And, speaking of irony, when the contractor finally located the Bellevue course and brought his equipment in, the ditching machine dug up no more than ten feet of turf when it broke down.

No Watering Formula

The final speaker on the irrigation program was Ralph Engel, an 18-year veteran of the Rutgers University agronomy staff and one of the most knowledgeable turfmen in the country. He spoke on watering as it is related to soil, climate and management.

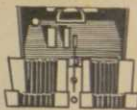
Engel emphasized that watering isn't done by the book or formula. There are so many variations in the moisture needs of turf, roots and soil that the watering process has to be continually studied. Its keynote should always be flexibility of application. In the final analysis, Engel said, watering comes down to the need for preserving life, and for providing a coolant when temperatures are extremely high. If a supt. grasps these two essentials, he is well on his way to understanding the whole purpose of watering.

Besides flexibility, the Rutgers professor listed several other things that should be kept in mind when a system is installed and actual application of water is undertaken. These are: A need for uniformity in distribution; the ability to slow down the application rate and even cut back on the size of droplets, if necessary; protection against uneven runoff; the application of correct quantities at all times; and ability to coordinate the watering system with rainfall. (Turn to page 112)

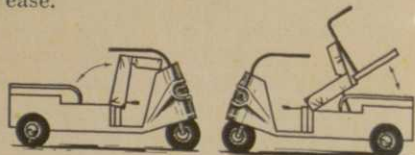
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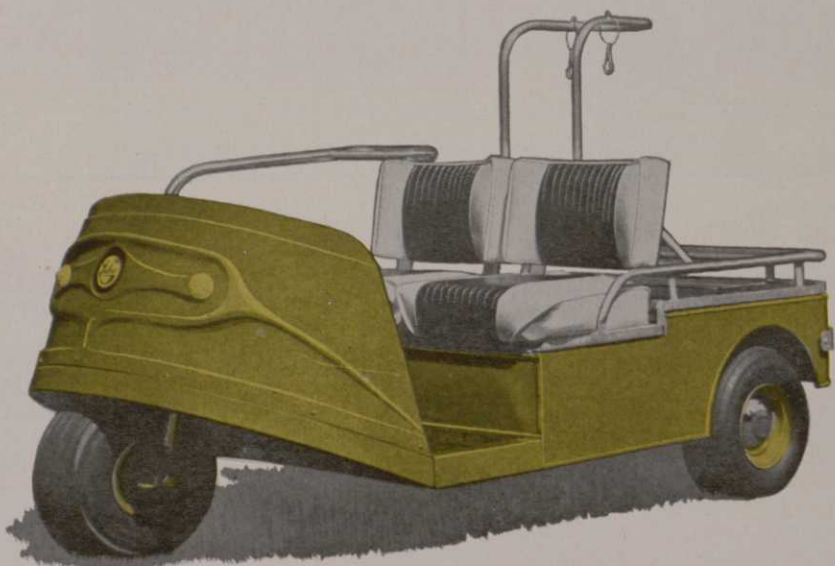
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GRAU'S Answers to Turf Questions

BY FRED V. GRAU

The Women Will Love Fred for This!

Some 2600 people have returned home after attending the 36th International turfgrass show in Cleveland. Many and varied will be the reactions and comments in the post-mortems which will be discussed over many weeks. Some of the reactions will reach the supts' executive committee for its guidance in organizing the 37th at Kansas City. I shall attempt to crystallize some of the highlights of the conference. No conference can be expected to be so perfect that there would be no criticism. Weak spots inevitably occur.

No one who regularly attends an International conference can be unaware of the increasingly important part played by the ladies. Never before have I been so impressed with the tremendous influence of "Mrs. Superintendent." She is the unpaid half of a *team* that the club hired when it thought it was hiring a supt. only. Few people point out to clubs the terrific bargain they get when they hire a happily-married supt.

Bless Their Understanding!

The lady performs many vital functions besides being a wife and mother. She is the confidante of a tired, harassed mate who comes home discouraged about weather, heat, cold, drought, diseases, insects, indifferent labor, poor soil, machinery that breaks down, fussy members,

grass that won't respond, and green chairmen that are either underfoot or rarely around. A man under stress finds solace in an understanding mate who lives his troubles with him.

Another virtue of the wives of superintendents is that **THEY READ!** Many told me that when their husbands are too busy to read their magazines, they (the ladies) skim through the articles, digest them, and pass on the highlights to their weary mates. What a great way to get information painlessly! To top it off, the women attend conferences to better understand what makes the whole industry tick, and to have a bit of relaxation and fun before they have to start listening again to grass-fertilizer-labor-machinery talk. Let us hope that clubs will re-appraise their "Mr. and Mrs. Superintendent Team", if they haven't already, and escalate benefits accordingly.

Something About Slides

Kodachrome slides are valuable visual aids to complement a lecture for illustration and explanation with few or no words.

The most effective slides are:

1. Few in number;
2. Of highest quality and in sharp focus;
3. Pertinent to the subject;
4. Quickly explained, then dismissed.

Too many slides of dubious quality, for which apologies are felt necessary, quickly lose an audience. A workable plan is one in which the local association demands a dry run at a monthly meeting for pur-



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poses of criticism and improvement. Anything below par must be discarded before the presentation can be considered suitable for an international affair.

Too Much Data

Black and white slides of data, charts and graphs become totally unacceptable when:

1. There is too much material on the slide;
2. Characters are too small to be read beyond the fifth row;
3. Lines of colors and broken dots and dashes coalesce and become indistinguishable.

Technical data is part and parcel of any educational conference. But it should be presented in small, easily digested bits that can be read with ease anywhere in a great ballroom.

Slides are presented by means of a projector and screen, both of which frequently fail to function. Conferences can be run much more smoothly when great care is taken in planning so that:

1. Slides fit the projector;
2. Someone knows how to operate equipment and is there when needed;
3. Slides are shown right side up;
4. Projector has sufficient candlepower properly to show details of slides;
5. A dry run eliminates faults in the system.

Young Ones Come Through

The 36th hit a new high with the brilliant presentations of Frank Dobie, Tom Burrows and Dick Blake on Thursday. Their talks epitomized the tremendous value of theoretical college education coupled with a solid foundation of practical training under a supt. who cares about the future of the profession. One gains confidence in the future with teachers like Roberts, Duich, Daniel, Troll, Engel and others who send students to courses where they will get a chance to grow.

Question and Answer Panels

Most questions are fairly personal and refer to a local situation where the member wants to know, "What can I do about this local condition?" It seems that this

type of panel is more suited to local chapter monthly meetings or to regional conferences. Panelists hesitate to answer fully and specifically for various reasons: (1) time factor; (2) unfamiliarity with specific local factors; (3) fear of misinterpretation; (4) fear of encroaching on another's specialty. Also, it seems to be difficult to equitably distribute the questions so that each panelist has an opportunity to serve.

Water Should Be Discussed

The subject of water is universal. Some phase of water supply, water use and misuse, and water relationships to soils, plants and organisms belongs on every program, national, regional and local. No one ever can know too much about this vital resource. Before too long we may see legislation that brands as criminal any act, thoughtless, selfish or otherwise, that leads to contamination or waste of our water supplies. Water belongs to everyone. The misuse of water certainly reaches a peak when water contaminated by an accumulation of nitrates is the cause of babies' deaths (J. F. Shrunck, 4th Assembly). This demands critical inspection of every water-using system that conceivably could contribute to this deplorable situation.

Split Sessions

Split sessions are logical and useful but when two sessions are run simultaneously, they deprive many supts. of information they come to acquire. Were the two sessions to be set up on succeeding days, every person involved in all phases of cool and warm-season grasses could gain full information on both programs.

The subject matter of "Research Findings" is essential to each and every International conference. Interpretation of data and translation into clear-cut explanations for the supt. are a necessary adjunct to each paper. An excellent plan is one that has each research paper followed by a 10 or 15-minute quiz session wherein a panel of two supts. and one technical man ask the speaker questions which are designed to clarify any confusion. The panel would have to study the paper
(Continued on page 144)