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# Burbank to Move Mountain to Build A Golf Course

*Nothing Is Impossible in California Where They're Planning to Shave Off A High Peak to Provide Golfing Facilities for 95,000 People*

By VERNE WICKHAM

**A**LTHOUGH Burbank, Calif. has a population of 95,000 it has no golf course. Worse yet, it has no land upon which to build one. But all that is being changed. They are going into the hills back of the city, chopping off the top of a mountain, filling the dirt into the canyons and providing land for an 18-hole course.

Burbank once had the Sunset Canyon golf course in the general area where the new one will be built. But it is now covered with home sites, as is practically the entire 18-square miles of the city. There are probably less than 1,000 undeveloped lots within the city limits and certainly not the 125 acres needed for a course. So, they are "building" land.

The hills and mountains back of the city long have been a favorite spot for picnickers and hikers — and forest fires and floods. In 1916 Oliver Stough, an early land owner, dedicated some of this hilly land to the city for parks and recreation purposes. As Stough Park it was partly developed with an open-air theater and

rustic park. The city, sensing the need for a golf course, purchased some additional acreage and a public-spirited citizen, Joseph De Bell, tossed in 100 acres of land for golf use. But the land, bisected as it was by deep canyons, covered with scrub oak, and marked by tall mountain peaks, was a fine place for bobcats and coyotes but not for fairways, traps and greens. However, city officials and engineers do remarkable things in California. They decided on a plan to chop off the tops of mountains, fill the canyons and presto, there would be 125 acres of "links-land".

About three years ago the plan began to jell under the direction of Clayton W. Paige, Burbank's city engineer. He assigned Edward J. Ernst, an engineer on his staff to handle the engineering on the project. Ernst decided that a scale model of the entire development was the best way to show people what they were going to do. He made two 4 by 6 ft. scale plaster models. One shows the land as it is. Detail and scale were the result of field work and aerial photographs and surveys. The second model shows the completed golf course (see photo), with the top of the mountain chopped off and the canyons filled.

Test holes were drilled in the highest peak and soil tests made. The top of the peak will be cut down 185 feet. On this plateau will be built the clubhouse, commanding a magnificent view of the city and valley. In all, more than 3,000,000 yards of earth will be moved before the golf course is seeded.

In addition to providing nearly 100,000 people in Burbank with a sporty golf course, it will serve to aid flood control and provide fire protection for the mountainous area back of the residential part of the city.

The two scale models were a part of the booth exhibit of the Southern California GCSA at the National Turf Show.



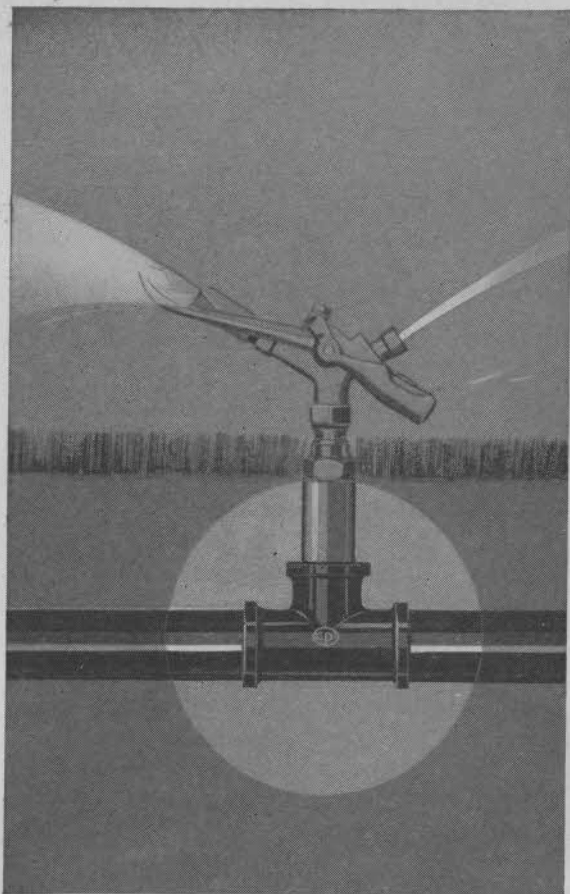
Burbank's proposed new course is shown in the foreground of this scale model.

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fairways and  
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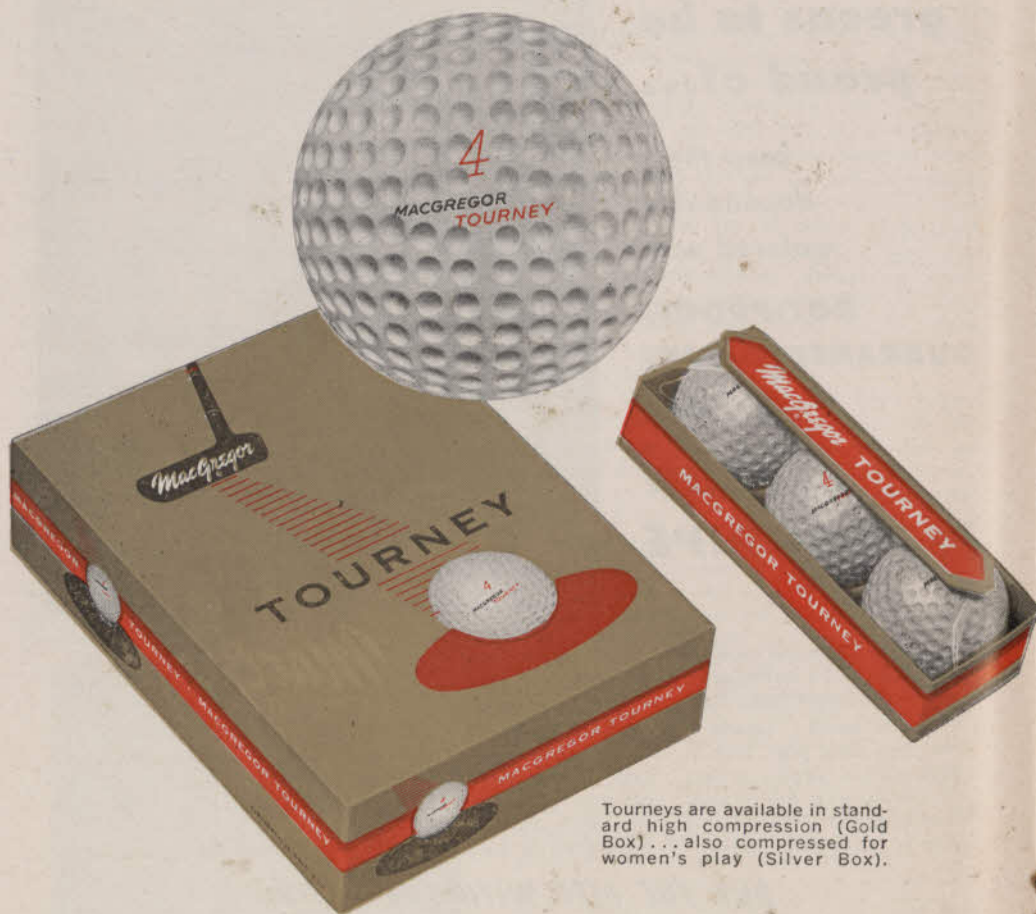
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No MacGregor announcement ever has been more significant than this one. MacGregor presents for 1957, the Tourney—the highest development yet attained in a golf ball.

It has many unusual qualities which set it apart from all others. It provides amazing distance—yet stands up hole after hole, keeps its beautiful appearance. Its core, its V-Thread winding and its cover are all new and improved, adding a “no-fatigue” factor, assuring the same oomph, whether on the 18th, 54th or 100th hole. The white finish, applied by an exclusive, new multiple “hot spray” process, withstands repeated stretching, compression, scuffing and abrasion...and the new name stamping and large-size numerals give it a clean “look.”

But the big story is **performance**. It is not only the golf industry's new standard—it is beyond any golfer's current conception. Try the new Tourney and see **for yourself**.

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Holds one dozen  
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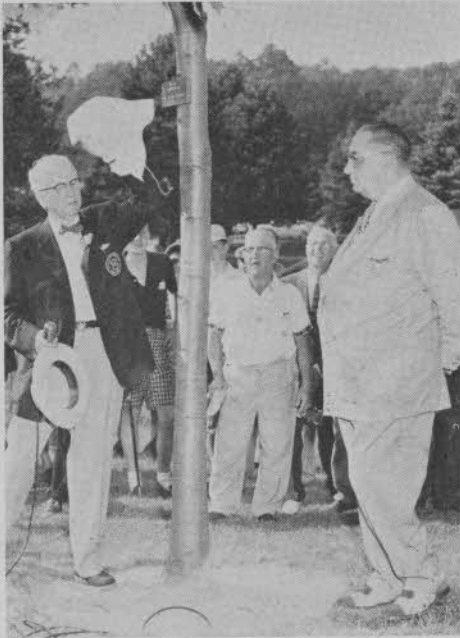


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## Haig is Honored



Dr. John R. Williams (left) of Oak Hill CC, Rochester, unveils a plaque honoring golf's immortal Walter Hagen (right). The ceremony took place at Oak Hill's Hall of Fame during the National Open. Inscription on the plaque reads: "Red Oak Walter Hagen—Golf's Master Strategist—1956."

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## Bego System Gives Points for Bogeys, Birdies, Pars

A new handicapping system designed to give credit for outstanding play on any one hole by variously handicapped golfers has been devised by Alexander J. Hutcheon of Larchmont, N. Y. Called Bego (Best Golf), the system gives point value for bogeys, pars, birdies, etc. in line with the handicap the golfer carries.

A 15-handicap golfer, for example, is given 2 points for a bogey, three for a par, four for a birdie, etc. where Bego is applied. Similarly, a 31 handicap player is given 5, 10 and 15 points, respectively, for these accomplishments. Hutcheon, who checked hundreds of scorecards before arriving at Bego point values, says that the addition of these points to regularly established handicaps brings new interest to tournament competition.

Complete information about the Bego system can be obtained from Hutcheon at 1833B Palmer Avenue in Larchmont.

## Lakewood, N.Y. Pro Concoives Pledge for Golfers

Golf etiquette will receive a tremendous boost if a pledge recently conceived and copyrighted by Lionel F. Callaway, pro at Maplehurst GC, Lakewood, N. Y., is widely adopted. Callaway is currently negotiating with some companies which advertise on a national scale to have the pledge printed and distributed to golf clubs throughout the country.

### The Golfer's Pledge

Upon my honor I solemnly promise my fellow golfers that I will never knowingly —  
Move, talk or swing during another's shot  
Play out of turn

Tee up outside the markers

Drive into players ahead

Approach to an occupied green

Hold up the course in any way

Leave my divots for others to replace

Leave footprints, etc., in the sand traps

Deface the greens or the holes

Leave trash on greens, tees or fairways

Take my cart or bag on the greens

Take unnecessary time to putt

Putt out of turn

Try my putts over

Loiter on the green after holing out

Be discourteous to other players

Abuse the rules

Invent my own rules

Take any unsportsmanlike advantages

Play in more than a four-ball

Berate my caddy

Lose my temper

Throw clubs or quit

Bend or break anything growing

Force my theories on others

Change my ball during a hole

Further I pledge to immediately allow others to go through —

(1) When I'm looking for a lost ball

(2) When I'm playing slow and a clear hole is ahead

After extending this courtesy I will not resume play until it is safe to do so

(Signed)

Date \_\_\_\_\_ Witness \_\_\_\_\_

Copyright 1956 by Lionel F. Callaway

## Managers Assn. Schedules Two Short Courses

Club Managers Assn. of America Educational committee has arranged the following short courses in club management:

Aug. 20-24—Cornell university, Ithaca, N. Y., Carl J. Jehlen, gen. chmn.

Sept. 10-11—Michigan State college, East Lansing, Mich., W. Bruce Matthews, gen. chmn.



The two-year old clubhouse at Roanoke CC is described as one of the finest of its size in the country. Joe Maples' pro shop is in the wing on left.

### How Publicity Helps

## Roanoke: A Club That Promotion Is Building

**M**ENTION "Speaking of Golf" within a 40 or 50-mile radius of Williamston, N. C. and citizens of that vicinity will immediately think of Joe Maples, who, although he is only 26, is more intimately connected with the sport in the minds of local residents than the Sneads, Middlecoffs and Burkes.

"Speaking of Golf" is a trademark that has been associated with Maples since he wrote his first weekly column under that heading for the local newspaper a little more than a year ago, and then enlarged on it by making it the subject of his daily five-minute radio show. It's Joe's way of promoting the game, his Roanoke CC, a nine-hole course that was opened late in and appropriately enough, Maples himself.

This ambitious kind of promotion has done a lot of good for golf, the club and Maples. Well over 250 people hold Roanoke memberships, club tournaments regularly attract around 100 entrants, such big names in the sport as Betsy Rawls and Paul Hahn have come in to play exhibitions, and business at Joe's pro shop flourishes to the extent that he can't allow his inven-

A good merchandiser as well as publicist, Maples takes great pride in the fact that his shop is so well stocked that he can fill practically all orders without delay. He is shown (at right) with Mrs. Davey Crockett and Bill Woolard, Roanoke members.

tory to drop below the \$3500 mark at any time.

Maples likes to think of Roanoke as the club that promotion is building. Joe won't commit himself to saying "has built" because everyone associated with the club has visions of a second nine, an increased membership, and the building of additional wings on the clubhouse, which although small, has received the stamp of approval from just about everyone who has seen it.

### Hope to Expand

The Roanoke pro doesn't take credit for being a one-man promotion bureau. He has had a lot of help from the membership, both male and female, in getting publicity for the club. Particularly active in this respect is a group of 40 women, who in addition to bringing in Betsy Rawls and Hahn, has done an excellent job in get-

*(Continued on page 59)*



At the Army and Navy Golf Club,  
**New Semesan<sup>®</sup> Turf**  
**doubles protection**



**Teaming up** Du Pont turf fungicides proved very effective at the Army and Navy Golf Club for Greens Superintendent James E. Thomas (right) and Greens Chairman Admiral John S. Phillips, U.S.N. Ret. (left). Says Mr. Thomas: "The results obtained in controlling large brown patch and kindred diseases with the combination of new 'Semesan' Turf Fungicide and 'Tersan' were very satisfactory. This past season was a trying one for disease in this area, and this new preventive practice proved its worth beyond a doubt."



Arlington, Va. . . .

# Fungicide plus Tersan<sup>®</sup> against disease

**NEW "SEMESAN" TURF FUNGICIDE** is helping to cut disease-control costs to new low levels. It's Du Pont's improved mercurial fungicide—offering broader range of control, more effective protection and greater safety to turf. Combining new "Semesan" Turf Fungicide with "Tersan" is producing outstanding results in controlling large brown patch, dollar spot, snow mold and other fungus diseases—with no discoloration of turfgrass. There's no better team for maintaining fine greens than your sound management practices plus Du Pont turf fungicides.

"Tersan" and new "Semesan" Turf Fungicide are packaged for easy mixing and measuring. Both are compatible with most commonly used turf chemicals and pesticides.



On all chemicals follow label instructions and warnings carefully.

Order **Tersan<sup>®</sup>** and  
**Semesan<sup>®</sup> Turf Fungicide**  
from your golf supply dealer



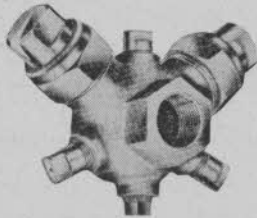
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BETTER THINGS FOR BETTER LIVING  
... THROUGH CHEMISTRY

# Jet Nozzles Prove Effective In Insecticides Experiment

By J. B. POLIVKA

Ohio Agricultural Experiment Station, Wooster, O.

**E**FFECTIVENESS of boom sprayers and large fertilizer spreaders in applying insecticides for grub control has been well established. But little was known regarding the efficiency of a cluster of jet nozzles attached to a low pressure sprayer. Effective results obtained with this type of sprayer, it was agreed, would simplify the application of insecticides in turf areas.



Jet nozzle head used instead of a boom sprayer in applying insecticides.

In order to obtain information on this sprayer's effectiveness, an experiment was made on a golf course near Madison, Ohio in September, 1954. In this test the cluster of jet nozzles, which replaced the boom on the sprayer, laid down a band of insecticides approximately 32-ft. in width.

Emulsifiable concentrates of dieldrin, aldrin, heptachlor, endrin and isodrin were applied at the rate of 3-lbs. of the actual toxicant per acre to plots varying in size from one to two acres. Two treated bands 32-ft in width, separated by an untreated buffer strip 32 feet in width, were laid down in ten of the fairways. In this way each of the five treatments was replicated four times. The sprayer was adjusted to deliver 15½-gals. of the spray material per acre.

The effectiveness of the various treatments was determined by taking population counts in the center of the sprayed band and at 15 ft. to the right and left of the center, or near the margin of the treated area. Four counts of this type were taken at random in each sprayed strip. Counts 30-ft. from center were taken in the untreated buffer portions of the fairway for comparison with those in the treated areas. The following table shows the results obtained when the plots were sampled 8 months and 12 months after application.

## Effectiveness of a Cluster of Jet Nozzles Used in Applying Insecticides to Turf for Japanese Grub Control.

Average Population per Square Foot

Toxicant	May 19-25, 1955 <sup>1</sup>				September 19-29, 1955 <sup>2</sup>					
	Left side		Right side		Left side			Right side		
	Un-treated	Treated	Un-treated	Treated	Un-treated	Treated	Un-treated	Treated	Un-treated	
	30 ft. from center	15 ft. from center	15 ft. from center	30 ft. from center	30 ft. from center	15 ft. from center	15 ft. from center	30 ft. from center	30 ft. from center	
Dieldrin	12.3	2.4	7.8	.6	13.5	17.1	.0	.0	.0	14.7
Aldrin	10.8	5.4	7.5	3.9	11.7	21.9	2.4	.9	.3	18.0
Heptachlor	20.1	2.7	3.3	4.2	17.4	17.7	.0	.3	.3	20.7
Endrin	11.4	1.2	3.9	1.5	8.4	20.4	.0	1.5	.0	18.6
Isodrin	15.6	3.9	3.0	4.8	9.9	12.9	1.2	.3	1.5	23.7

<sup>1</sup>May record was taken on larvae that were in the soil when applications were made.

<sup>2</sup>September record was taken on a new generation of larvae and showed residual effect of the treatment.