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Floyd L. Parks, former commanding general of Second Army who died last spring . . . 210-acre course is now known as Parks GC . . . It was opened in 1956, largely through the efforts of Gen Parks to get a course for the post.

J. Bud Geoghegan, pro at Crestmont, CC, West Orange, N. J., and frequent contributor to GOLFING, has been named a Kentucky colonel by Gov. A. B. (Happy) Chandler . . . Miller Open, to be played Aug. 27-30 at Tripoli GC, Milwaukee, featuring topflight golf at sub-par prices . . . Admission will be one dollar a day for adults and 50 cents for kids . . . Total prize money is \$35,000 . . . Architect R. Albert Anderson designing course for Spring Valley GC, Union Center, Wis., and has Cypress Creek CC, Pompano Beach, Fla., under construction.

Riverview CC, opened in July in Wichita, Kans., has its 160 acres laid out around 14 acres of lakes . . . Designed by Floyd Farley, its greens average 7,500 ft. and tees are about half this size . . . Fairways are of native buffalo grass and course is watered by an underground system . . . Clubhouse and putting clock are to be built in the fall . . . First ace at Brunswick (Me.) Naval Air Station

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## 1960 USGA COMPETITIONS

- |       |           |   |
|-------|-----------|---|
| May   | 20-21     | Curtis Cup, Lindrick GC, Nottingham, Eng.<br>Overland Park, Kans.   |
|       | 11-12     | Americas Cup, Ottawa (Can.)   |
| June  | 16-18     | Open, Cherry Hills CC, Englewood, Colo.   |
| July  | 11-16     | Amateur Public Links, Honolulu  |
|       | 21-23     | Women's Open, Worcester (Mass.) CC  |
| Aug.  | 3-6       | Junior Amateur, Milburn G&CC, Hunt & GC<br>15-19 Girls' Junior, Oaks CC, Tulsa<br>22-27 Women's Amateur, Tulsa CC |
| Sept. | 12-17     | St. Louis CC, Clayton, Mo.  |
|       | 19-24     | Senior Amateur, Oyster Harbors Club, Osterville, Mass.  |
|       | 28-Oct. 1 | World Amateur (team) Merion GC, Ardmore, Pa.  |

course, opened last spring, scored by Roger Keckman, cpo.

The 19th Northeastern Open will be played Aug. 22-24 at Oshkosh (Wis.) CC . . . Lou Warobick is defending champion . . . Northeastern GCSA will hold annual meeting and election on Nov. 17 at Mohawk GC, Schenectady, N. Y. . . . Third Eastern Amateur to be played at Elizabeth Manor G & CC, Portsmouth, Va., Aug. 12-16 . . . Tom Strange, who won first tournament in 1957, is now pro at Elizabeth Manor . . . New 9-hole course at Boyne Falls (Mich.) Mountain Lodge is a par 28 with holes averaging about 170 yards.

Lou Barbaro, Hollywood pro, won New Jersey State GA Open with 278 . . . He edged Al Mengert by a stroke as both shot final round 66s . . . Fred Grieve, pro at Glen Head CC on Long Island, died in July . . . He had held that job for 12 years, resigning this spring because of illness . . . Mayor of Dumas, Tex., issues “golf week” proclamation as part of buildup for West Texas Cup Matches and Dumas Invitation, both being played in Dumas in Aug.

Deane Beman, one of the top amateurs in the U. S. and 1959 winner of the British Amateur, joins Washington, D. C. ad and p. r. agency as statistician and sales contact employee . . . Boone (N. C.) GC formally opened July 15 with home pro, Joe Maples, Billy Joe Patton, Joe Chev and Dave Smith putting on exhibition . . . Course was built and designed by Maples' father, Ellis . . . It has Pennecross greens and pro shop is one of finest in the state . . . Revision of water system causes delay



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in opening of Whittier Narrows, Los Angeles County course, July 29 to Aug. 19.

George E. Wardman has been named pres. of the Bermuda Golf Assn. for 1959-60, succeeding the late George R. Holmes, who died in April . . . Wardman was playing captain of the Bermuda team that competed in the World Amateur last Oct. at St. Andrews . . . At the 41st national recreation congress, to be held at Morrison Hotel, Chicago, Sept. 28-Oct. 2, one session will be devoted to discussion of public course operation.

Metropolitan GA's 57th amateur to be held Aug. 13-16 at Fairview CC, Elmsford, N. Y. . . . Al Ciuci, who with Wiffy Cox, organized the Long Island PGA a quarter century ago, was recently given a "day" by members of the association . . . A pro-pro tournament was followed by a dinner for Al, who was pres. of LI PGA for 19 years until he retired after the 1958 season . . . Former 9-hole course and airstrip at Estes Park, Colo., being converted into 18-hole course by Rocky Mountain Recreation Dist.

Statesville (N. C.) CC has outgrown its present 9, can't expand, and has decided to build 18 holes, expandable to 27, east of the city . . . It will be tied in with

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a real estate development and cover 768 acres . . . Alexander G. McKay of Morristown, Pa., is the golf architect and builder . . . The course development committee quickly sold 221 shares of stocks at \$1,000 per in the venture and all shareholders will get one-acre plots.

Chatmoss CC, being built by Ellis Maples near Martinsville, Va., will be ready next summer . . . Charter shares, costing \$1,000, included lot option privileges . . . Shawnee CC, Milford, Del., has begun construction on its 9-hole course to plans of Ault and Jamison . . . To get business and industry interested, Shawnee sold preferred shares at \$100 which can be redeemed in five years at no interest . . . Common stock was sold to those who wish to become members at \$300 per share . . . Ocean Cty (Md.) G & Yacht Club 18-hole course opened for play in late June . . . Bill and Dave Gordon were architects and builders.

British Travel Assn. has pointed out that you can play St. Andrews for only 22 cents green fees . . . Laurel Pines CC, near Patuxent River, Laurel, Md., opened after three years of hard work and many delays

### Muny Course Survey

The American Recreation Society's golf committee, headed by Robert M. Shultz, Bridgeport, Conn., recreation supervisor, is making a nationwide survey of muny and tax supported courses. It includes course listings, number of holes, green fees, list of key personnel, number of rounds played in 1958, operating receipts and costs, concession information, number of employees and salaries. The survey will be accomplished in geographical sections, with the New England dossier already having been completed.

Copies of the New England survey can be obtained from the American Recreation Society, 1129 Vermont ave., N.W., Washington, D. C. or National Golf Foundation, 407 S. Dearborn st., Chicago 5.

. . . Bill Schreiber, supt., said course was subject to frequent floodings and it took a dike along the river and cutting of many ditches and swales to get it into playable shape . . . Lewis Lamp, supt., Winchester (Va.) CC, has completed building of additional 9 which was put in

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play a short time ago.

Five scholarships to Rutgers University have been awarded to caddies at member clubs in New Jersey State GA . . . This will bring total to 17 . . . Early in July, Western Golf Assn., awarded 34 Evans scholarships to caddies at first of six selection meetings to be held throughout the Midwest . . . Through the Ladies PGA Champonship, held in French Lick, July 2-5, Betsy Rawls had won \$12,529 . . . Louise Suggs was second in line at the pay window with \$11,764, and Mickey Wright, third, with \$10,282 . . . Louise had the lowest scoring average, 73.57 strokes per rounds.

The college All-American golf team of 1959, selected for Wheaties Sports Federation by collegiate coaches, includes Deane Beman, Maryland, Tom Aaron, Florida, Ward Wettlaufer, Hamilton, John Konsek, Purdue, Allen Geiberger, Southern Cal. Jack Cupit, Houston and Warren Simmons, Syracuse . . . Chick Harbert, p at Meadowbrook CC, Northville, Mich., and former PGA champion, has been named to the University of Michigan's Willie Heston Sports Hall of Fame along with six others . . . Jim Snyder has  
(Continued on page 98)

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# The Ripple Sole Controversy

Ripple soles on golf shoes seem to be stirring up about as much argument as golf cars did before extensive use of cars was accepted.

Seemingly the soles are comfortable or there wouldn't be enough of them worn to cause debate. There have been no arguments about the protection the soles give against accidents that occur in the clubhouse or about their convenience in clubhouse areas where spiked shoe traffic is not allowed.

But what they do — or don't do — to the greens has been a subject of controversy. Some supts. maintain that Ripple soles, if they do ripple greens, don't do it any more than spikes, ball marks or nicks around the hole when the putter is used as a crutch.

The USGA recently polled green chmn. on Ripple soles. Of 214 who replied, 136 considered Ripple soles most damaging to putting green surface, 50 thought rubber lug soles did the damage and 46 rated spikes the worst offenders.

Nearly all of the responding chmn. thought any damage by soles is only temporary. Some suggested that Ripple, lug or spike marks made convenient alibis for missing putts. One chairman replied: "Some players just don't know how to walk."

The debate is getting scientific. Here we print a study on the physical and psychological effects of Ripple soles. — Editor

By Eugene R. O'Connell, M.S. and  
Laurence E. Morehouse, Ph.D.

Human Performance Laboratory  
University of California, Los Angeles

Golf shoes with flexible Ripple soles have been shown to be significantly less injurious to turf greens than shoes with spikes or lugs. Ripple sole prints placed on the green diagonally across the path of the ball do not deflect its flight.<sup>1</sup> In order to further evaluate the effects of Ripple sole marks on putting performance two experiments were designed.

Using a mechanical putting device shown in Fig. 1, ten new golf balls were



Fig. 1 — Mechanical putting test.



Fig. 2 — The flat level test.

TABLE I — Psychological Effects of Bowling Spots and Ripple Sole Marks on Putting Performance  
(Number Out of 21 Trials Which Went Into the Cup)

Subject	Unmarked Surface	Bowling Spots on Surface	Ripple Sole Marks on Surface
1	11	9	9
2	12	7	12
3	7	4	7
4	10	10	8
5	4	7	11
6	13	12	14
7	9	7	7
8	9	11	7
9	4	8	7
10	6	4	11
11	6	3	9
12	10	7	10
Totals	101	89	114

<sup>1</sup>Ferguson, M. H.: "Effects of Golf-Shoe Soles On Putting Green Turf" (covering tests by Gipsen, C. E., and Potts, R. K.), *USGA Journal and Turf Management*, November, 1958.



TABLE II — Physical Effects of Ripple Sole and Spike and Sole Marks on Putting Performance  
(Number Out of 10 Trials Which Went Into the Cup)

POSITION OF FOOTPRINTS	RIPPLE SOLE			SPIKE SOLE		
	Turf Undisturbed	Immediately After Prints	5 Minutes After Prints	Turf Undisturbed	Immediately After Prints	5 Minutes After Prints
Perpendicular to Path of Ball	8	9	8	9	10	9
Parallel to Path of Ball	10	10	10	9	5	9
45° Clockwise to Path of Ball	7	7	9	8	5	9
45° Counter-Clockwise to Path of Ball	7	8	5	8	8	7
Average Score	8	8.5	8	8.5	7	8.5

delivered one at a time across an undisturbed level green a distance of seven feet toward a cup. The number of balls which went into the hole were scored. A 160 pound golfer wearing Ripple soled shoes then stepped between the device and the hole and left rib prints in position perpendicular to the path of the ball. Immediately, 10 balls were delivered across this Ripple sole mark and the number of balls

which fell into the cup were scored.

Five minutes later the performance was repeated. The same regimen was repeated with prints made parallel to the path of the ball, again with prints 45 degs., clockwise to the path of the ball, and finally with prints 45 degs. counter-clockwise to the path of the ball. The whole series was repeated using shoes with spike soles. The results shown in Table 1 show slightly im-

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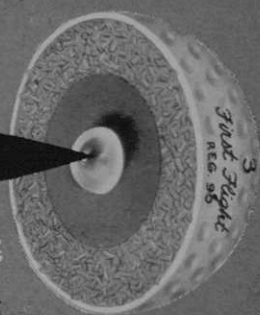
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proved average scores when Ripple sole prints are made immediately before putting. These results concur with those in the previous study, which revealed that on undisturbed turf, 17 out of 25 went into the cup; when crossing the diagonal Ripple sole print, 20 out of 25 went into the cup. Thus, Ripple soles seem to have a beneficial physical effect on putting, perhaps a result of tamping the ground and leveling it. This advantage is not present five minutes after the Ripple sole print has been made. Spike soles slightly deteriorate average putting scores immediately after the print is made, but the turf appears to recover five minutes afterward.

## Psychological Effect

To test the psychological effect of Ripple sole marks on putting performance, 12 subjects each made 21 putts on three different eight-foot flat level experimental putting surfaces; one a plain white surface, one a white surface with spots similar to those found on bowling allays, and one a white surface with black Ripple sole marks made by stepping on an inked pad

and then walking in all directions between the "tee" mark and the target eight feet away representing the cup.

## Extensive Test

Four subjects started on each course and rotated seven times around all three surfaces putting three balls on each trail. The first ball putted on each course was considered a practice putt, so the total of 20 putts was considered in computing each subject's score on each course. To score a successful putt the ball had to pass through an arch the size of a golf cup. The experimental arrangement is shown in Fig. 2. Results shown in Table 2 reveal that superior scores were made on the course marked with Ripple sole prints. Eight of the twelve subjects made their best scores on the Ripple sole marked course.

These two studies show that Ripple sole marks aid both physically and psychologically in golf putting performance.

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