GOLFDOM • AUGUST, 1948

Acushnet Process Sales Co. . . . . . . 2nd Cover
Allied Golf Corporation ..... 68
American Agricultural Chemical Co., The ..... 70
American Chemical Paint Co. ..... 8
Armour Fertilizer Works ..... 21
Balanced Golf Bag, Inc. ..... 57
Bancroft, Inc., Hugh ..... 53
Bean Manufacturing Co., John ..... 20
Berner Company ..... 74
Boston Golf Ball Company ..... 74
Bradley Washfountain Company ..... 23
Buckner Manufacturing Company ..... 4
Buel Machine Company ..... 14
Burke Golf, Inc. ..... 39

Chamberlin Metal Products ..... 51
Chicago Wheel & Mfg. Co. ..... 71
Colby Pioneer Peat Company, Inc. ..... 78
Colorado Fuel & Iron Corp. ..... 25

D B A Products Co. ..... 72
Davis, Inc., George A. ..... 4
Des Moines Glove & Mfg. Co. ..... 64
Delge Company, The C. B. ..... 16
Dow Chemical Company ..... 11
Dubow Mfg. Co., Inc., J. A. ..... 64
Dunning, R. C. "Bob" ..... 73
DuPont Semesan Company ..... 7, 19
Durable Mat Company ..... 73

Eastern Golf Company ..... 74
Ederer Company, R. J. ..... 79
Faulkner, Fred J. ..... 75
Goodyear Tire & Rubber Co., Inc. ..... 9
Gordon, William F. ..... 76

Hagen Golf Division, Walter ..... 36, 37
Hardie Manufacturing Company ..... 18
Harris, Robert Bruce ..... 76
Henderson & Company, Peter ..... 14
Hillerich & Bradsby Company ..... 26
Horner, R. B. ..... 71

Ideal Power Lawn Mower Company ..... 9
Johnson Seed Co., J. Oliver ..... 12
Jones, Robert Trent ..... 76
Justice, Dave W. ..... 8

Kaddy-King Incorporated ..... 55
Kesi, Inc., B. I. ..... 71
Kosar's Golf Development Laboratory ..... 62

L. A. Processing Company ..... 67
Langford, William B. ..... 79
Leavitt Corporation ..... 79
Lewis Co., G. E. ..... 75
Long Sales, Chester A. ..... 69
McArthur & Sons, Inc., Geo. ..... 67
McGovern, J. B. ..... 75
MacGregor Golf, Inc. ..... 46, 47
Mallinckrodt Chemical Works ..... 15
Mellflex Products Company ..... 70
Merchants Tire Company ..... 66
Modern Mower Company ..... 16
Mozel Golf Enterprises, Joe ..... 62
Murdock M. & Supply Co., The ..... 72
Myers & Bro. Co., The F. E. ..... 25

"Na-Churs" Plant Food Co. ..... 10
Nutria Peat Sales Company ..... 75
Nye-An Company ..... 63

Old Orchard Turf Nurseries ..... 78
Onan & Sons, Inc., D. W. ..... 24
"Over-Spin Putter" Company ..... 69

Page Fence Association ..... 22
Parker Pattern & Foundry Company ..... 72
Pennsylvania Lawn Mower Div. ..... 3rd Cover
Phillips, Inc., F. C. ..... 68
Powers Regulator Co., The ..... 23

Ronco Products, Inc. ..... 17
Royer Foundry & Machine Co. ..... 10

Sani-Tread Co., Inc. ..... 66
Scoggins Golf Co., Howard ..... 61
Scott & Sons Co., O. M. ..... 20

Sewerage Commission ..... 6
Skinner Irrigation Company ..... 73
Smith, Kenneth ..... 65
Snow-Proof Company, The ..... 68
Spalding & Bros., Inc., A. G. ..... 30, 31
Stumpp & Walter Company ..... 22

Trophy & Medal Shop ..... 67
Tull, Alfred H. ..... 76

United States Rubber Company ..... 4th Cover

Vestal Company, John H. ..... 67

Wagner & Sons, H. L. ..... 4
Wagstaff & Co., C. D. ..... 75

West Point Lawn Products ..... 3rd Cover
Wickwire Spencer Steel Division ..... 25
Wilson Sporting Goods Company ..... 42, 43

Woodrup & Sons, Inc., F. H. ..... 18

Worthington Ball Company ..... 32

Worthington Mower Company ..... 53

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August, 1948
Alphatron, New Radioactive Substance.  
Holds Promise for Turf Benefits

As a result of a program of crop experiments recently announced by the Atomic Energy Commission of the U. S. Dept. of Agriculture, the possibility of using atomic energy in developing more and better turf has aroused lively interest in the field of golf turf management. Over the past quarter century experimenters have reported that radioactivity stimulates plant tissue growth. Research was started in France 25 years ago by Boris Pregel and continued in this country. Now president of the Canadian Radium & Uranium Corp., Pregel points out that emanations and rays of radium and other radioactive elements have a demonstrable beneficial effect in small doses. While results of demonstrations offered evidence of the potentialities of utilizing radioactive material in crop growth, it is only in recent years that proper compounds of Alpha-radioactive quantities have been determined.

Scientific Soil Products, Inc., a Pregel company, currently is experimenting in adding radioactivity to various types of soil, having developed the precise formula which is known as Alphatron. It contains 1/10,000 of an ounce of Alpha ray material per 10 lbs. For crop growth 10 lbs. per acre the first year, 5 lbs. the second year and 2½ lbs. per year thereafter is believed to be the rate of application to the soil.

In American tests conducted by Pregel in which different combinations of fertilizer were used, results showed that weak Alpha radioactive compounds added to an active fertilizing agent brought plants to maturity early and, in all but one instance, increased the yield. Radioactive materials are not fertilizers by themselves.

Experiments with cucumbers conducted for a large food processing and canning company showed an increase of 51% in number and 60% in increased weight in treating cucumbers. In May, the Atomic Energy Commission and the Agricultural Dept. announced that a series of controlled tests would be conducted with the Commission supplying the funds and the Bureau of Plant Industry, Soils & Agricultural Engineering providing the scientific work.

Several greenkeepers are starting experiments with Alphatron to determine its possible benefits to turf culture, using Alphatron both in powder and liquid form, both of which are safe to handle.
Whether you invest in a FAIRWAY GANG, with its unbreakable malleable iron construction—an aluminum and steel SUPER ROLLER Greens Mower or any of the conventional hand mowers—if it is PENNSYLVANIA-built it is a dependable grass cutter. PENNSYLVANIA has made mowers—and only mowers—for over 70 years, and the name has always meant high quality—in terms of good grass cutting, easy operation, long life and low maintenance cost.