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For more information circle number 250 on card

USGA GREEN

continued from page 110

It would depend on the type of golf course involved, that is, nonprofit member-owned club, privately owned facility with profit motive, or a municipal operation. Among the Federal financing programs, the Farmers Home Administration of the Department of Agriculture during 1966 made 95 loans totalling \$13,311,070 to nonprofit associations for recreation facilities construction. All 95 included golf courses.

"Loans of this type are available only to nonprofit associations serving rural areas or towns of not more than 5500 population. Maximum term, 40 years, usual interest rate 5 per cent, maximum loan, four million dollars.

"Profit motive course operators may explore the Small Business Administration program if local banks are not interested. Maximum loan \$350,000 usually repayable in monthly installments over

a 10-year period, rate usually $5\frac{1}{2}$ per cent to 6 per cent.

"Probably the best sources for loans for private member owned country clubs are local banks.

"Cities, counties and states seeking to acquire open space for recreational use may explore the possibility of a loan or outright grant from the Department of Housing and Urban Development, Washington, D. C. 20410."

On this promissory note, (pun intended!), the conference ended. •

Larson Opens Warehouse

Larson Machine, Inc., Princeville, Ill., have announced the opening of a new warehouse located with the Coleman Equipment Co., 1900 Kingshighway, Paragould, Ark.

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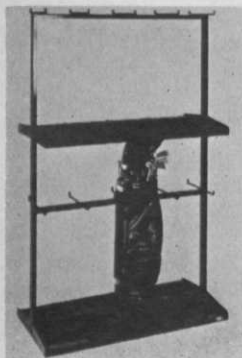
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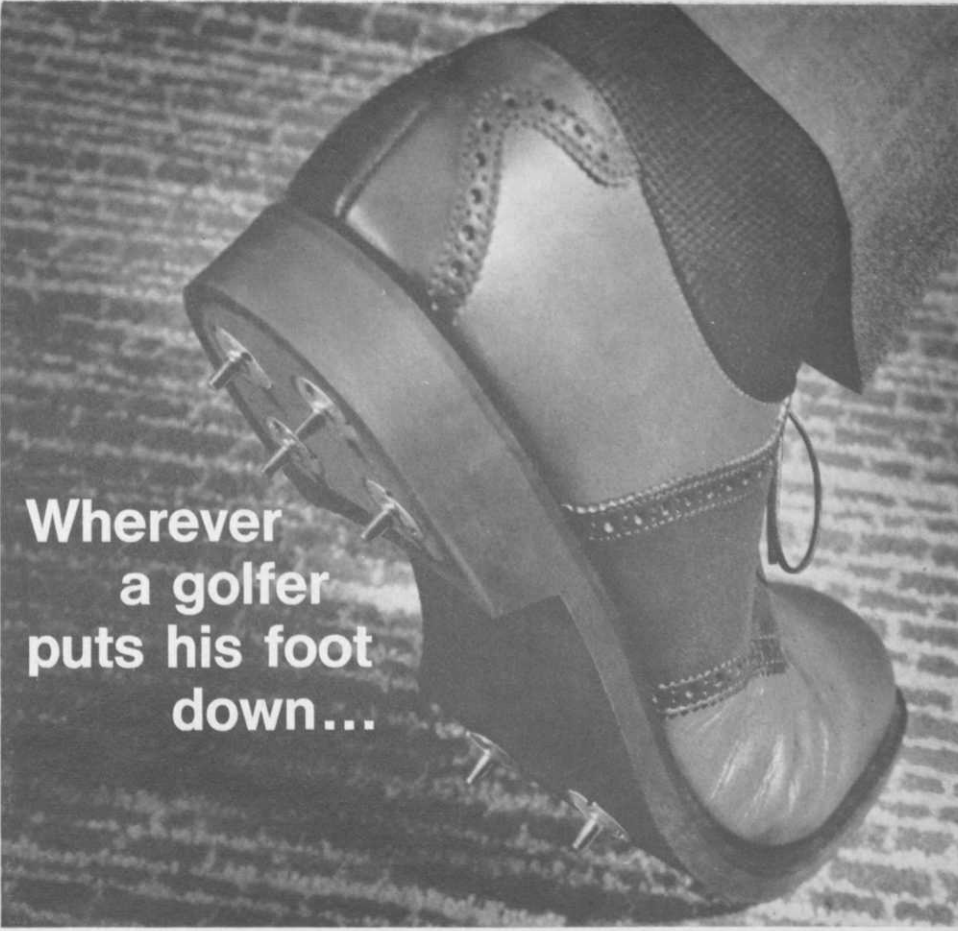
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For more information circle number 244 on card

GCSAA SEMINARS

continued from page 34

3,000,000 golfers, moving in golf faster than the U. S. He said U. S. playing and course maintenance equipment and reduced import taxes on this equipment have been important in speeding world growth of golf.

Taylor told of maintenance crews, ranging 23 men in Peru and 70 men at the Royal Calcutta, where average pay is five cents an hour. Foreign superintendents annual pay ranges from \$750 in Taiwan to \$6,000 in Holland where the course worker's pay is \$1 an hour. Rain, at the courses Taylor visited, ranged from 7.78 to 50 inches. The bug, animal, bird and heat problems, the abundance of labor with hand weeding still common

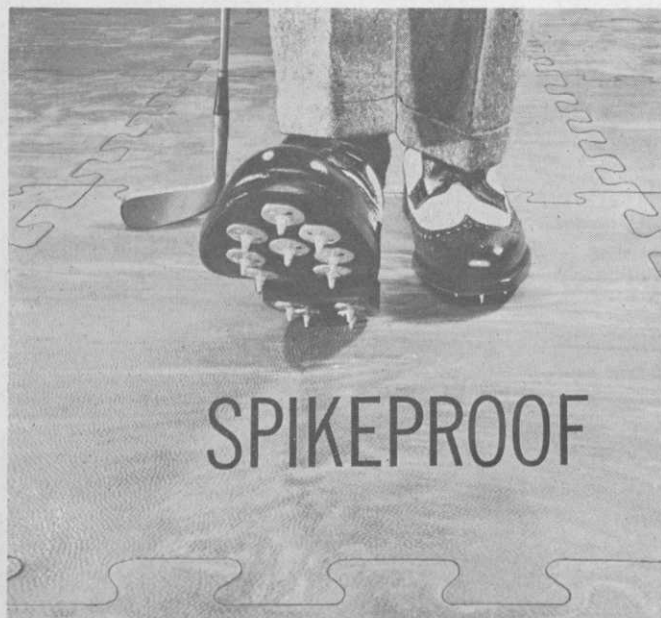
and as many as 150 course workers occasionally being used at the Rangoon course, gave Taylor great material for his talk and pictures.

Answers and Alibis in Research

Veteran superintendents and turf scientists were reminded by the talk of Dr. Noel Jackson of the University of Rhode Island on "Turfgrass Disease Problems in Britain and the USA" of the summary made by Dr. John Monteith, Green Section director, after a trip to Britain. John reported he'd never seen places before where God had done so much and man so little for golf turf. It's changed now, and the British golfers are becoming as exacting as their Yankee counterparts.


He pointed out that the area of the

continued on page 118



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GCSAA SEMINARS

continued from page 116

U. S. was 30 times that of the United Kingdom, but many of the miseries of the golf course managers were common. *Poa annua* trouble is international. Fungus diseases he said must be regarded as the most common cause of serious turf diseases in both countries. Creeping bentgrass and Kentucky bluegrass aren't very much in use yet in the U. K. Overdoses of weedkiller and fungicide, fertilizer scorch, incorrect watering, mower scalp, pollution damage, gasoline and urine scorch, and vandalism are international. The Jackson talk and pictures were interesting and consoling. They reminded U. S. superintendents that golf course managers in the U. K. could match them ulcer for ulcer.

Research Progress Cited

In the round-up of reports on turf research conducted by Dr. M. H. Ferguson, National Research Coordinator, USGA Green Section, Dr. Eliot Roberts of Iowa State said that "of all maintenance practices, nitrogen fertilization has the most extensive and most varied influence on turf quality." Roberts reported on five years of experimentation with nitrogen fertilizer. He said recuperative potential of grass is an important measure of quality. His summaries of summer performance in nutrient-clipping, nutrient-water, nutrient-balance relationships, disease resistance, diseases in various golf grasses



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and wintering performance up-dated superintendents on their fertilization.

Dr. F. V. Juska and Dr. A. A. Hanson of U. S. Dept. of Agriculture Research Service reported on the studies of the influence of phosphorus levels on Merion and Kentucky bluegrass growth and phosphorus effect on preemergence crabgrass and *poa annua* control. High levels of phosphorus reduced the effectiveness of some *poa annua* control material.

Dr. Joseph M. Duich telling of "Soil Modification Research," said that modification of most native soils to enable the natural aggregate structure to resist compaction has superintendents and turf scientists coming up with about as many different answers as there are men speaking. He showed slides of the compositions of various mixtures, their porosity for moisture and air and availability of moisture. He concluded that "An ideal or 'best' mixture concept is not feasible." He added that laboratory procedure in determining the most satisfactory putting green soil is not conclusive but can be a useful guide.

Dr. James B. Beard's recommendations (Michigan State) for managing shade grasses were: thinning of trees to improve light penetration; deep fertilization of tree roots by injection; root pruning; higher mowing; fertilizing according to specific needs of grass; infrequent but deep watering.

continued on page 120

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GCSAA SEMINARS

continued from page 118

The conference got out of the laboratories and test plots into the workshops Wednesday morning when experts of leading mower and mower sharpener manufacturers gave demonstrations of correct use of their equipment.

"On the Job" Ideas

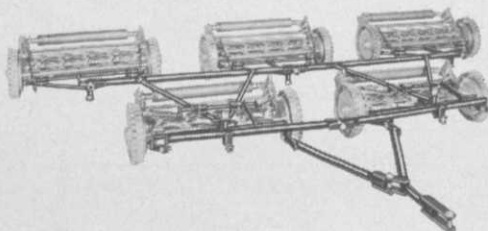
Paul Weiss, Jr., Concord CC, Concorville, Pa., headed a program on operating procedures which began with James Smith, Sr., of Fertl-Soil, telling about topdressing material for grass health, smooth putting surface and thatch control. Smith recommended study of the cup plug to get the story of good or bad results of topdressings. He discussed the aggregate qualifications, active organic material and economics of topdressing mixtures.

Alex Radko, Eastern Director of the Green Section, related useful ideas he'd seen being used by superintendents. Among them were lawn-type pop-up

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