The organic fertilizer in the fall is best? I am not aware of any data to support that procedure. We have seen many good results from heavy late fall application, especially in the way grass starts strong early in the spring and recovers from injuries. Regular applications of organics right through the season have become routine procedure. It's possible the practice to which you refer may have been done on some basis with which I'm not familiar. Further discussion would be most helpful, but you neglected to sign your letter and gave no address.

Q—Please examine samples of soil and sand I am sending and give me your opinion of the best mixture for topdressing my bent greens.

A—The soil appears to be dry loam with good physical structure. The sand is graded from coarse to fine, but most of it is what I would call coarse. This is good. With a good grade of peat or well decomposed sawdust on hand, I would suggest this mixture:

- Sand, 7 parts by volume
- Clay loam, 2 parts by volume
- Organic material, 1 part by volume

I am sure that you will be much better satisfied with this mixture if you can make it up a year ahead, treat it for weed seeds (sterilize with cyanamid or methyl bromide), and let it develop a "bond" between the particles. This will give the micro-organisms a chance to operate and develop some aggregates before you use it. It will be best if you continue to use the same mixture year after year.

Q—Would you give us your solution to hard greens? Our greens will not hold a shot unless they have been soaked with water. It is the opinion of several members that an aerifier would solve our problem. (Ala.)

A—Your members who believe in aerifying are to be commended. It will help in a large way but it is not an end in itself. You need also to grow roots so as to have a cushion of turf which will hold a shot. To grow grass it takes regular adequate feeding and sensible watering. Aerifying helps in several ways; it loosens soil mechanically, thus making it softer and better able to hold a shot without being soaking wet all the time; it lets air, water and fertilizer deep into the root zone, thus helping to grow roots and well cushioned turf.

If you would send me a sample of the soil in your greens I could give you a more accurate answer on how and when to aerify and what to add after aerifying. Please tell me something of your fertilizing program and the kind of grass you have on the greens. You should know by now that I am a staunch advocate of using the right grass and feeding it adequately.

I might add that the excess moisture in the soil, designed to help soften the soil to hold a shot, actually works just the other way, making the soil harder. Grass roots need lots