

have made only minute, token advances in the technology of water pollution control and air pollution control.

I live in a community which faces the problems of water pollution and air pollution in almost incredible concentrations. You have many times heard of the progressive deterioration of Lake Erie which is rapidly becoming a useless, dead water sea. Probably no city in America faces so critical a problem of air pollution as does Cleveland, where the steel and petrochemical industries generate life and property destroying pollution in a valley situated right in the heart of the city. The smokestacks which pour the polluted gases rise above the valley so that they pour their effluents at almost the same altitude as the adjoining residential area.

Year after year during the past 30 years of my recollection on this subject, there have been promises after promises that the next year would be better. That the pollution of the lake would somehow be curtailed and that new devices would be controlling the pollution of the air. Three decades of fraud on this subject have almost convinced our people that relief will probably never come.

Those who can afford it move away from the pollution of the air. Those who can afford it utilize other waters than Lake Erie for recreation. Those who cannot afford it remain trapped in an atmosphere of polluted air along the shores of the lake which will soon have no more utilitarian value than providing a sunset view in the early summer.

The pollution of the water of Lake Erie is chargeable to ineffective or absence of water treatment by industrial users and to inadequate and sometimes absence of treatment on the part of public users. The pollution damage to our waters is therefore divisible; the responsibility for pollution of our air, except for motor vehicle emission, is not divisible. The muriatic acid which etches the windows of Cleveland homes can only have its origin in the steelmaking process. The graphite dust which settles over vast residential areas during the quiet of the night can only come from industries which push it into the atmosphere under great pressure. The yellow iron oxide dust which blankets large areas of the city with certain changes of the wind can only have its origin from industrial operations.

The present programs of water pollution control will be helpful but will not provide the critical solutions to the water pollution problems of Lake Erie and the Great Lakes.

The technology of water pollution control by industry in the Ohio River Valley and the other great river valleys of America is vastly and critically different from the crude and elementary technological processes in water pollution control utilized on the Great Lakes. The downstream users of the Ohio Valley would not countenance for 1 hour the effluents of the steelmaking industry on Lake Erie and Lake Michigan. As a matter of fact, until very recently there were practically no efforts to clear up industrial waste water in the Great Lakes Basin.

If we were to compare the steelmaking industry in the Great Lakes areas with the comparable steel industries in the Mahoning and Ohio River Valley, we would find that the Great Lakes steelmaking industries do not utilize any visible devices for the removal of mill scale, oil and grease, and that the Great Lakes steelmaking industries pro-