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Environment

UK Pollution Control Progress Described at Shirley Meeting

As the opening speaker at a conference on effluent treatment and water conservation held recently at the Shirley Institute, Dr. N. Lee, University of Manchester, presented a general picture of pollution control in Great Britain, comparing it with recent North American moves in this field.

In Britain, he said, there is concern that the growth of certain companies which do have a pollution control organization, the man responsible for waste control often isn't high enough up on the corporate ladder. Prosperity should be matched by improvements in the environment. Pressure is mainly from middle classes, but there is a lessening of pressure by the popular press. There have been a number of government reports on environmental matters, but as yet no action has been taken on these, possibly because of the existing economic climate.

The premise that "in this country water was an extremely scarce commodity" was likely, in the speaker's opinion, to lead to regulation of usage, and a pricing system to control demand might give a sharp increase in water prices. More attention would be given to rivers as sources of water and this would require stricter control of discharges. Amenity demands would also promote cleaner waters and again this would raise costs.

Dr. Lee suggested that the whole function of waste control requires a more comprehensive examination and recommended that industrialists take a look at their firm's pollution control structure (if any). In many firms the responsible man was not high enough in the organization. In those companies which do have a pollution control organization, the man responsible for waste control often isn't high enough up on the corporate ladder.

In those companies which do have a pollution control organization, the man responsible for waste control often isn't high enough up on the corporate ladder.

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In tests involving textile rinsing, the Shirley Institute staff obtained good practical results using small amounts of water and multiple treatments.

Efluent Discharge—Legal Aspects

J. S. Evans, consultant to the British Textile Employers' Association, said one had to deal with the facts of life, because the industrialist had to live from one balance sheet to the next. Looking dreamily into the future could be left to the government. He dealt with the legal facts of life relating to effluent discharge, covering in a lucid and witty lecture those that were the concern of the industrialist who used water. Steering through the hazards of Common Law old water, the machines employed and whether the treatment is batch-wise or continuous. Most of the water is employed in rinsing, and the speaker concentrated on this in an analysis of factors affecting usage. Washing performance was shown to depend upon the amount of water used and upon the efficiency of interchange of process liquor and rinsing water. Good performance was obtained with small usage and multiple treatments. The benefits were all economic, not technical, and the speaker showed target figures for water utilisations to illustrate the results that might be achieved.

Solving Effluent Problems

H. S. Gardner and A. H. Little described how the Shirley Institute solves effluent problems, starting with the preliminary investigations and leading to full-size treatment plants and their performance. Gardner showed how important was the initial survey, where correct methods of sampling and flow measurement were essential with the very variable textile effluents. Analysis of samples gave data from which could be developed a picture of the effluent load from a works. The next stage included laboratory trials from which a choice could be made of a possible treatment or combination of processes to give the degree of purification required. Design data could be obtained from pilot plant tests. Little carried on from this to show how the choice of plant depended upon the disposal route, ranging from a simple pretreatment for sewer disposal to a full treatment for river discharge. Examples were shown of a variety of full-size plants at textile works. The speakers concluded with a forecast of possible trends in treatment methods.

Collaborative Work

The work done in effluent treatment and disposal over the past eight years by groups at three textile research associations collaborating in this field—Shirley Institute, WIRA, and HATRA—was demonstrated by a showing of the film "Clear Water Ahead."