T is not, I hope, a serious contra- affluent do have refuse disposal units, become a serious problem, such collecattempting to identify the impressive figures (the print on the key diagram is too small to be read at a distance) as in wondering at the appalling mess of litter and waste paper through which the procession is wading. It is almost like the platform of a London underground railway station in 1975. I am glad to say that the corridors of power are, in this respect, more hygienic today, if other places are becoming filthier.

Litter and refuse are undoubtedly providing some of our most difficult pollution problems today. Both New York and London seem to be permanently subject to piles of stinking refuse, even when there is no industrial dispute between the local authorities and the refuse collectors. Earlier this year the strike of dustcart operators in KENNETH Glasgow faced the city with a serious of disease.

is that it is the successful control of air our feeding habits. pollution which exacerbates the probecause much was burned on domestic grates and kitchen ranges.

vention of the Official Secrets Act to to pulverise food and some other tions of swill have greatly decreased, reveal that, in Committee Room 11 in wastes, which are then discharged into as regulations to ensure that the food the Houses of Parliament, the wall the sewers. This may allow their is properly treated and sterilised, above the rostrum is adorned with an hygienic disposal, though there have though wise and necessary, are too enormous oil painting which depicts been reports from America of a con-stringent for the majority of small "The Speakers Procession in 1884". sequent overload of sewage works and operators. It is calculated that the dust-The Parliamentary and Scientific Com- even more serious pollution of rivers bins of Britain contain at least 3 million mittee sometimes meets in this room, when the material is discharged, un- tons of "putrescible material" (the and when the proceedings are less than treated, into them. We are often better trade jargon for waste food) a year, enthralling I find myself studying the at moving pollution from one place to much with a high protein content, and picture. My interest is not so much in another than in curing or controlling it. that if this were properly treated it

## **Waste line**



MELLANBY

public health problem, so that the of Agriculture, Fisheries and Food, has and increasing the risk of transmission tony, we could reduce our balance of level fell substantially. payments deficit by nearly £1,000 What may not be generally realised million, without any marked change in seen to be a very complicated problem.

blem. Earlier this century the volume in recycling all types of waste material, avoided does not give rise to further of refuse was much smaller, partly little food is re-used in this way. In the past, much pig swill came from hotels, that our present Members of Parliaschools and even from private houses. ment are better house trained than It is true that some of the more Since swine vesicular disease has their Victorian predecessors.

The Chief Scientist to the Ministry could feed more than 1 million pigsas well as reducing the health risks arising from uncollected refuse.

If waste food is to be used to feed animals, it has to be separated and treated. There are less difficulties in recycling refuse as a soil fertiliser or conditioner. Considerable amounts of sewage sludge are used in this way, and several cities have installed elaborate and expensive plant to promunicipal compost. Wastes duce brought in by the dustcarts are sorted and separated (tins and iron scrap is removed magnetically, baled and sold) and the remainder, with added sewage sludge, goes through a digestive process. The end product is a brown powder which is quite pleasant to handle. It contains a significant amount of nutritive salts, and is an excellent conditioner for intractable clay soils. Although available at a low cost, most army had to be called in to clear away recently stated that, of the food bought farmers have been reluctant to use the more noisesome dumps. The pro- in Britain, as much as a quarter may municipal compost, because it usually blem is made worse by the way in be wasted. This does not include the contains substantial amounts of heavy which the bulk of the litter is swelled substantial amount that is eaten, over metals, the lead level commonly exby masses of unnecessary packing and above their actual requirements, by ceeding 200 p.p.m. There is evidence material, but its danger is also a func- most of our population, contributing that, in the presence of a high level of tion of affluence, for it is the waste to the obesity which is the most serious organic matter, this lead is hardly taken food, much of it initially quite fit for symptom of malnutrition in most up by most plants, but it does remain consumption, that makes refuse a Western countries today. It seems likely in the soil and might give rise to propublic health problem, attracting rats that, if we eliminated waste and glut- blems at a later date if the organic

Waste disposal and re-use is thus Clearly the best solution is to produce Although there is a growing interest less, and to see that what cannot be problems. But it is at least encouraging

design an acceptable clinical trial withdepriving patients of other, accepted methods of treatment. In other words, if Laetrile were put on clinical trial, it could only be justified ethically it if were simply added to other forms of treatment, and that wouldn't make for a very rigorous test.

There is, however, another extremely important aspect to the Laetrile debate. Laetrile, in its purified form, is relatively non-toxic. It can be fed to animals in large doses before any adverse effects are noted; according to Thomas, at least one of the "solid pieces of data" to come out of the SKI studies is confirmation of that fact. Laetrile proponents therefore argue that FDA should not regulate the substance as a drug, but as a food or even a vitamin.

Would it do any harm if the FDA were to allow Laetrile to be marketed like any other so-called health food? Even the New York Times has suggested, in an editorial published in August, that since Laetrile is usually taken by cancer patients who are bevond help from conventional therapies, they should not be denied even a

possible placebo effect from the substance. But a letter from Dr Sherwin Gardner, Deputy Commissioner of the FDA, took exception to that suggestion. Pointing out that the FDA has a duty to protect the public against ineffective drugs, Gardner said he believes that 'the idea of fraudulent promotion and sale of bogus cures to the desperately ill and dying is appalling". It is also argued that, if Laetrile is made more widely available, it will be taken by cancer patients in preference to other therapies which have at least proved effective in the past.