SUMMARY OF THE PLANT INDUSTRIAL HYGIENE PROBLEMS OBSERVED IN SEVERAL REFINERIES ESSO COMPANY

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In the time allotted to me, I should like to discuss the industrial hygiene problems in the Esso Company on the basis of broad groupings into the type of exposures. I believe that this approach, rather than by operation, will point up more clearly the responsibilities of the industrial hygienist. The following is a partial list:

1. Exposure to toxic gases, vapors, and mists
2. Exposure to toxic fumes and dusts
3. Industrial dermatitis
   a. Primary irritants
   b. Sensitizing agents
4. Exposure to carcinogens
5. Excessive heat
6. Excessive noise
7. Inadequate illumination
8. Inadequate ventilation
   a. General
   b. Local exhaust
9. Vibrating tools
10. Atmospheric pollution
11. Sanitary facilities
12. Special problems

Toxic gases, vapors, and mists occur quite generally throughout the refineries; from hydrogen sulfide in the processing of sour crudes, to mercury vapor in the instrument shops; from sulfur dioxide in sludge cooking,