

WORLD HEALTH ORGANIZATION  
REGIONAL OFFICE FOR THE EASTERN MEDITERRANEAN

SEMINAR ON AIR POLLUTION

Teheran, 21 - 29 April, 1969

EM/SEM.AIR.POL./17

19 April 1969

ENGLISH ONLY

EQUIPMENT AND METHODS FOR CONTROL OF POLLUTANT EMISSIONS

(CITY PLANNING AS A METHOD OF CONTROL)

O U T L I N E

by

Dr. H.C. Wohlers\*

- A. Development of air pollution control equipment
  
- B. Collection of particulate matter
  - 1. Size distribution of dusts
  
  - 2. Typical efficiency curves
  
- C. Control equipment for particulates
  - 1. Settling chamber
  
  - 2. Cyclone
  
  - 3. Simple scrubber
  
  - 4. Electrostatic precipitator
  
  - 5. Fabric collector

---

\* Professor of Environmental Science, Department of Environmental Science and Engineering, Drexel Institute of Technology, Philadelphia, USA.

D. Summary of control equipment for particulates

1. Operational characteristics
2. Cost estimates
3. Basic equipment versus control costs

E. Control methods for gaseous pollutants (except SO<sub>2</sub>)

1. Packed tower
2. Catalytic combustion
3. Carbon bed

F. Sulfur dioxide recovery systems

1. Costs of SO<sub>2</sub> systems

G. Multiple chamber incineration

H. Municipal incineration versus landfill operations

1. Cost comparisons

I. Stack height control

1. Cost of stack versus height

J. Planning and Zoning

1. Stalingrad
2. Toronto