



SHORT COURSE ON SOLID WASTES  
COLLECTION AND DISPOSAL

Damascus, 20-30 May 1968

EMRO 134

Lecture No.6

Problems in Multi-story Buildings

In general these methods are methods of intermediate handling prior to final disposal elsewhere.

- A. Need for proper Handling "On-Site"
  - 1. Eliminate or reduce access to insects and rodents
  - 2. By reducing volume, reduce storage volume requirements
  - 3. Reduce hazards
  - 4. May reduce collection costs
- B. Method of collecting in Building
  - 1. Chutes discharging to basement
  - 2. Receptacles on each floor, brought to basement
  - 3. Individuals carry to disposal container
  - 4. Various water-borne systems
- C. Methods of volume Reduction
  - 1. Grinding and pulping
  - 2. Mechanical compacting
  - 3. Incineration
- D. Discussion of Methods
  - 1. Individual responsible
    - a. Inconvenient for tenant
    - b. Success depends on each tenant's cooperation

2. Receptacle on each floor
  - a. Somewhat similar to No.1
  - b. Containers must be emptied regularly by someone responsible for their condition
3. Chutes to basement
  - a. To storage container
    - (1) Uncompacted
      - (a) Need adequate volume for storage
      - (b) Refuse must be stored so that it is easily accessible for collection
      - (c) Storage facilities must be rodent and insect-proof
    - (2) Compaction unit
      - (a) Into metal container
      - (b) Into bags
      - (c) Expensive
      - (d) Saves space
      - (e) Must be rodent and insect-proof
  - b. To incinerator
    - (1) Reduce volume by burning combustibles
    - (2) Ash and residue must be removed
    - (3) Source of air pollution and odors
    - (4) Need auxiliary fuel and proper design
    - (5) Source of fire hazard if not properly designed - especially in flue-fed type
  - c. Problem of chute itself
    - (1) Clogging
      - (a) Minimum size with respect to size of charging doors
      - (b) Design charging door to limit size of objects placed in chutes
    - (2) Fires
    - (3) Need for cleaning
      - (a) Wrap all garbage
      - (b) Use a corrosion-resistant material.