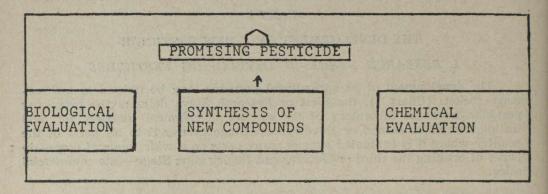
Chart 2—COMPONENT PARTS OF RESEARCH STAGE



The Nucleus or backbone for introducing a new pesticide is the RESEACH STAGE as shown in Chart 2. Chemical companies such as Cyanamid usually accumulate a large stockpile of chemicals which have been synthesized by other Divisions within the company. Agricultural Research Groups starts by screening these compounds for biological activity against agricultural pests. If a compound shows promise, related compounds may then be synthesized in hopes of discovering a more active material. Those which continue to show promise are chemically assessed before they are sent out for extensive field testing.

Chart 3

BIOLOGICAL EVALUATION

- 1. BASIC EVALUATION FOR AREAS OF ACTIVITY USING INDICATOR PLANTS, INSECTS, ETC.
- 2. APPLIED EVALUATION FOR SPECIFIC USE
 - a. AGAINST SPECIFIC PESTS
 - b. DOSAGE RESPONSE
 - c. EFFECT ON HOST OR CROP
- 3. TOXICOLOGICAL STUDIES
- 4. BIO-CHEMICAL INFORMATION
 - 1. METABOLISM IN ANIMALS AND PLANTS
 - 2. MODE OF ACTION
 - 3. TRANSLOCATION