



**Rising costs and stiffer competition** continue to make themselves felt, according to third quarter reports. One bright spot—pharmaceuticals. *Page 23.*

**C&EN's special guide to the Chem Show Dec. 2-6**—what companies are where with a record number of exhibits filling New York's new Coliseum. *Page 105.*

**FEATURE Scientists need special training in experimentation** to do industrial research that cuts across traditional boundaries, says Clifford F. Fassweiler in his Chemical Industry Medal Address. *Page 74.*

**INDUSTRY & BUSINESS Steps toward shipping natural gas by tanker** will be taken this month when work starts on the ship. Great Britain will be the outlet when first tanker loads go from Venezuela in 1959. *Page 25.*

**Rocket developments come thick and fast in the wake of Sputnik.** Among the most spectacular—the Air Force's Operation Far Side that sends one 4000 miles up. *Page 26.*

**MARKETS Plastics make a 6% over-all gain so far this year,** although production of some classes is down. Vinyls keep their top position with a 12% gain and could beat polyethylene in the race for the billion-pound mark. *Page 34.*

**MANAGEMENT Gulton Industries strives to keep the small company atmosphere.** The technique—biweekly meetings at the president's house where engineers gather to discuss the firm's plans and engineering developments. *Page 36.*

**GOVERNMENT Laxity in enforcing antitrust decrees** charged by House Antitrust Subcommittee as hearings open on oil pipeline dividends. Justice Department witnesses answer questions reluctantly, claim answers will prejudice Government's anti-trust cases. *Page 42.*

**RESEARCH Inland Testing Labs measures radiation damage** on organic materials with its cobalt-60 source of 62,000 curies. The approach involves a dynamic test. *Page 48.*

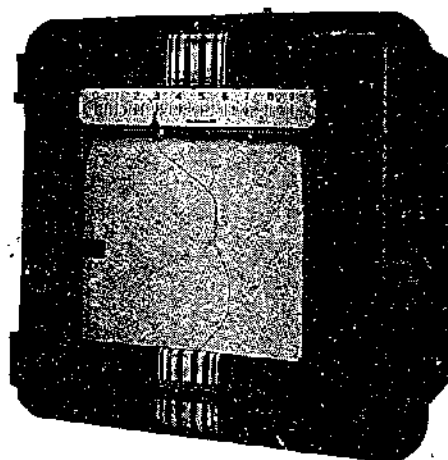
**AEC advisory committee boils down various findings on fallout.** Some conclusions: National security justifies nuclear weapons tests, but they should be held to a minimum. *Page 49.*

**PRODUCTION Mechanical compacting makes solid products dense or upgrades them.** It's one answer to the problem of materials handling with fine particles. Fertilizer companies are the biggest users so far. *Page 52.*

**CHEMICALS A new polyfunctional isocyanate** promises new use for urethane foams, as it raises the temperature service limit of the material. Foams based on the new chemical will "take" 400° F., says the developing company. *Page 57.*

**EQUIPMENT Man-made diamonds are still in the pilot plant.** But a good many will be used industrially by the end of the year, and General Electric plans to expand commercial production in 1958. *Page 60.*

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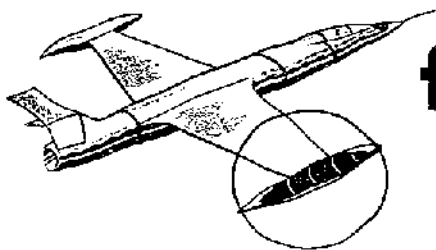
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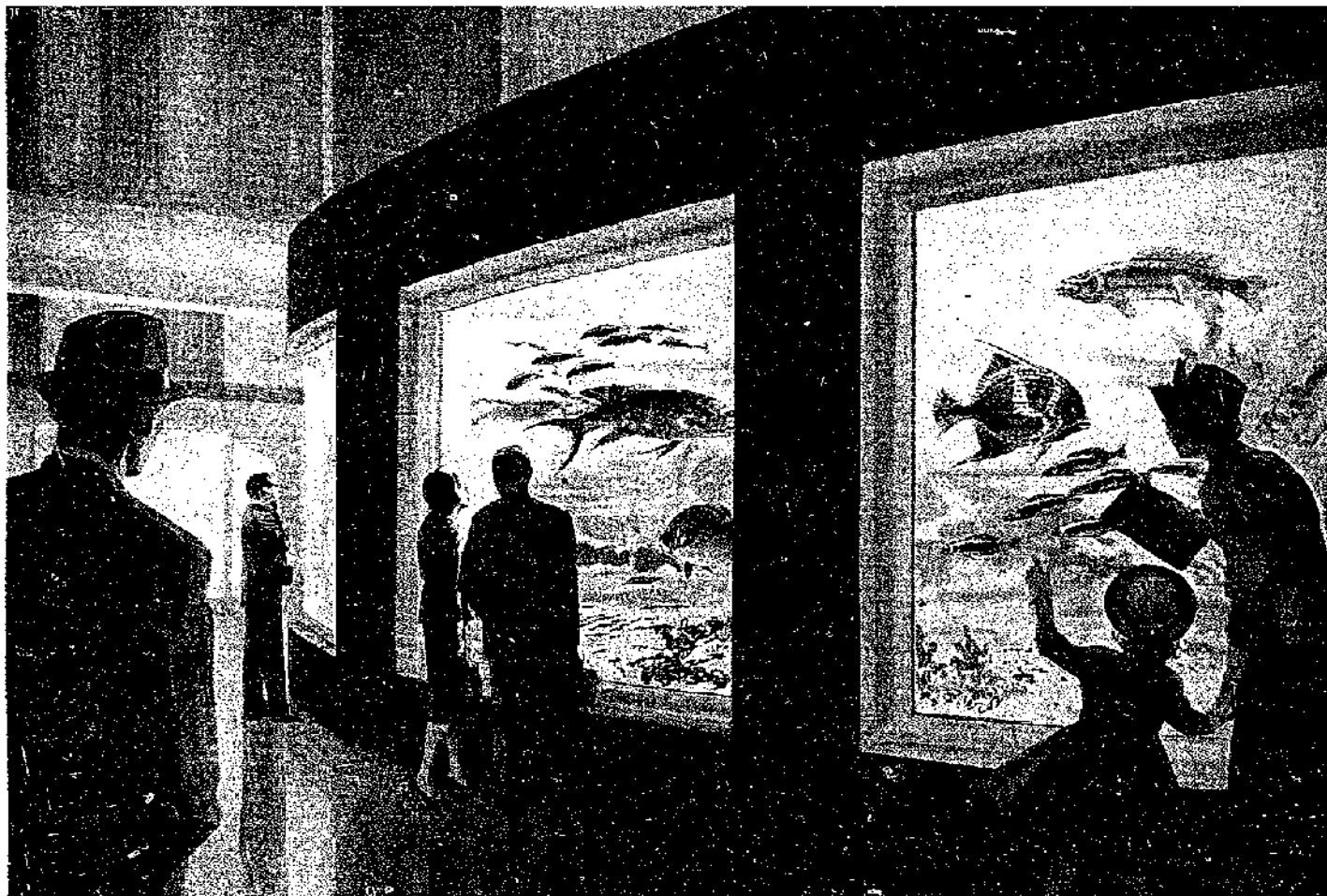
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# The Chemical World This Week

CONTINUED

**INTERNATIONAL** A new rail link in Manitoba helps Inco develop its giant nickel operation in the Thompson area. The company is now spending \$175 million on the project to increase nickel supply. *Page 82.*

**EDUCATION** U. S. atomic energy industry employs more than 100,000, says the Office of Education. A new booklet explains the kinds of work these people do, gives possibilities for education and training to fill atomic science jobs. *Page 86.*

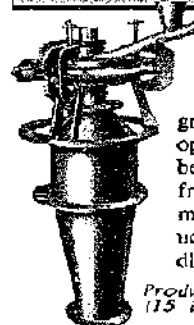
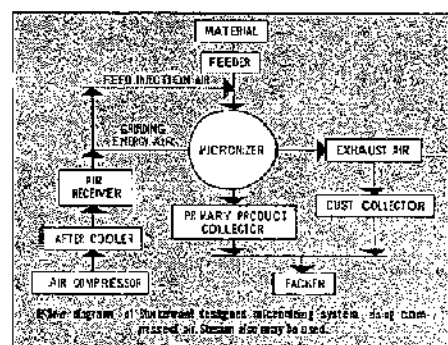
**ACS NEWS** C&EN acquires an assistant managing editor in latest staff reassignments. Gordon Bixler, now news editor, will fill this position. Kenneth Reese becomes news editor, and Howard Saunders replaces him as head of ACS Applied Publications' Chicago office. *Page 92.*

**ASSOCIATIONS** ACS sections hold their Southwest Regional Meeting in Tulsa Dec. 5-7. Featured speakers will cover air pollution, optical activity, and corrosion. Total program—115 papers. *Page 98.*

**PEOPLE** Nobel Prize in Medicine and Physiology goes to Daniel Bovet, Swiss-Italian pharmacologist, for work on anti-histamines and anesthetics. *Page 120.*

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