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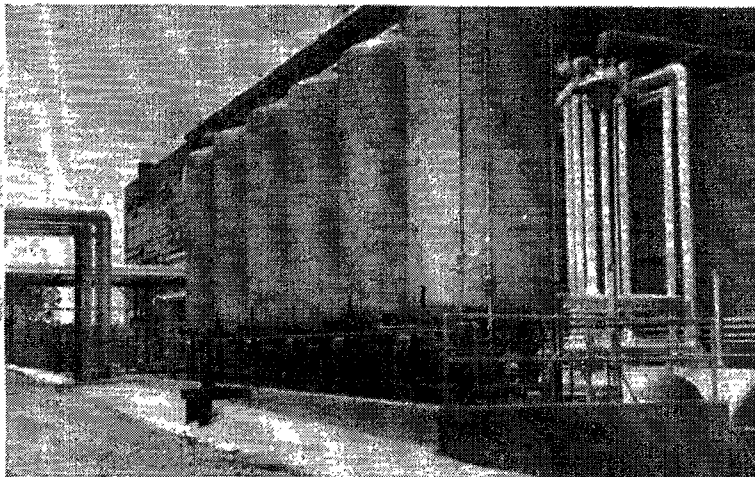
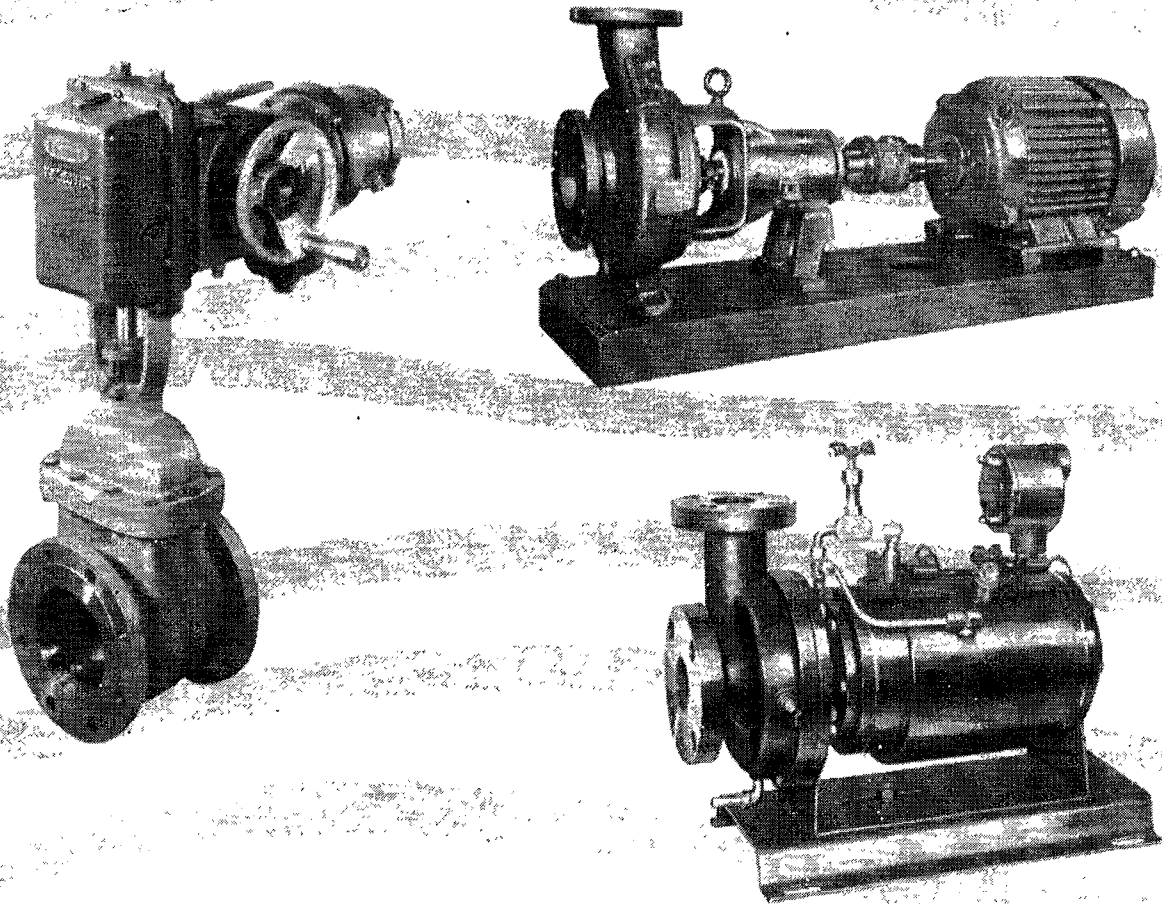
MAGNET MAKERS TURN UP THE HEAT 101

Corfam goes to work in the manufacturing plant... 43

Second chance for syndets-from-sugar process?...

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Whatever flows in the CPI



count on Crane to move, control and treat it.

Whether it's mercury, ammonia, acid or oil. Whether it's stable or unstable, at tremendously high or cryogenic temperatures—no matter what it is, it's not too tough for Crane to handle.

Take Crane's line of chemical pumps. It's the biggest in the industry. Offers you the widest possible choice—from new AVS centrifugal pumps to canned Crane-Chempumps® that combine pump and motor in one, leak-proof, all-welded unit. Together, they pump just about any liquid, including the ordinary, less-troublesome ones, with less maintenance.

When it comes to regulating, Crane corrosion-resistant stainless steel valves and special alloy valves stop leakage problems before they start. They come as regulars in many types and pressure classes, in a full range of sizes. For automatic remote operations, outfit them with Crane Teledyne® motorized valve operators.

Where you have water conditioning, waste treatment and product recovery problems, Crane has the engineering and product sophistication to solve them most economically. With specified-to-order or pre-packaged Crane-Cochrane® systems from demineralizers to deaerators, ion-exchangers to salt-splitters.

But that's not the half of it. Crane also has piping and fittings to meet about any requirement you have. For full details, write Crane Co., Dept. 012, 4100 South Kedzie Avenue, Chicago, Illinois 60632.

CRANE

VALVES • PUMPS • FITTINGS • WATER TREATMENT
PIPING • PLUMBING • HEATING • AIR CONDITIONING

ON THE COVER: Operator peers into reactor as trickle of magnetic material drops from the opening. New markets are opening up for ceramic permanent magnets as designers perfect smaller and lighter magnets with higher coercive force (p. 101).



CHEMICAL WEEK

Vol. 99, No. 11

SEPTEMBER 10, 1966

THIS WEEK IN BUSINESS

- 5 **VIEWPOINT:** Cold light on the hot subject of advertising costs is shed by study showing yearly change of such costs as a percentage of GNP.
- 27 Trade balance may trigger new economic policies for '67. White House worries about the relatively rapid increase in imports.
- 29 An end to the 7% tax credit? Process industries—which have benefited by several hundred million dollars in four years—ponder new project-payout formula.
- 29 Allied Chemical sets up new Industrial Chemicals Division, consolidating former corporate offshoots of three of Allied's five original predecessor companies.
- 30 Continental Oil-Consolidation Coal merger set for next week; Pitt-Consol Chem is included, but potash and activated carbon stock holdings will be spun off.
- 30 Antitrust action in the U.S.: General Dynamics indicates it will appeal ruling by federal court in New York that it must divest its Liquid Carbonic division.
- 31 Antitrust proposal for the world: Global-minded business men consider implications of Senator Hart's plan for agency to probe international mergers, cartels.
- 32 New opportunities on the horizon for plastics producers: Medical research on air-borne mineral fibers could lead to restrictions on asbestos in major uses.
- 74 Canada's Prairie farmers begin a record wheat harvest, are expected to follow up with another fertilizer splurge—raising sales 20% next year.
- 82 Manhattan's Park Avenue is becoming the fashion address for chemical companies lured by modern offices, easy commuting, and good communications.

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- 43 Du Pont's Corfam finds its first use in process equipment as a long-lasting packing and seal material for pumps, etc.
- 47 Armour will build plant for new series of amines derived from petroleum-based materials and made by a new catalytic process.
- 53 Nebraska seeks patents on a new process for making surface active agents from sucrose and beef tallow, will offer process free to those who'll build in state.

THIS WEEK IN SPECIALTIES

- 101 Specialty magnet market will double in the next 10 years—from \$50 million to \$100 million. Auto industry will take lion's share.



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Taking Giant Steps

Two chemical process companies took giant steps toward diversifying into the oceanography field last week, and two paper companies with combined sales of nearly \$1 billion/year reached a tentative agreement to merge.

(1) Bendix Corp. (Detroit) expanded its oceanic activities by acquiring for an undisclosed amount of stock Marine Advisers (La Jolla, Calif.), producer of oceanographic instruments for petroleum and utility companies, state and federal agencies, and firms engaged in scientific programs.

(2) Fluor Corp. (Los Angeles) and B. L. McFarland and Associates (Fort Worth and Midland, Tex.), a group of five companies involved in offshore and onshore drilling operations, have agreed to merge, subject to stockholders' approval. The McFarland group operates five offshore drilling rigs in the Gulf of Mexico.

(3) A tentative agreement to merge has been reached by U.S. Plywood Corp. (New York) and Champion Papers, Inc. (Hamilton, O.). It is subject to both directors' and stockholders' approval. The corporate identities of both companies will be preserved.

Reducing Gas Rates

The Federal Power Commission has ordered El Paso Natural Gas Co. and Transwestern Pipeline Co. to reduce by \$17 million/year the price of natural gas in the southern California market.

The rate cut stems from the July 26 decision in which FPC turned down the application of Gulf Pacific Pipeline Co. (a Tenneco subsidiary) to supply gas to the Los Angeles area (*CW*, Aug. 6, p. 20). Gulf Pacific last week filed for a rehearing.

El Paso and Transwestern were told they would have to lower their rates to reflect the lower costs resulting from the bigger deliveries possible in the expanded system. At the same time, FPC said it would conduct further proceedings to decide if customers should get additional benefits resulting from more liberal depreciation allowances.

FPC has given the companies 45 days to show cause why the reduction should not take place.

Sources of airborne asbestos

Asbestos-lined ducts used in centrally air-conditioned buildings.

Asbestos ducts and insulation in home central-heating plants.

Motor vehicle brake linings and clutch plates.

Auto undercoatings.

Asbestos ceiling and floor tiles.

Asbestos shingles and sidings.

Construction and demolition

Fitting, cutting, and removing asbestos-filled wallboards and floorings, piping and insulation.

Incineration of asbestos-filled scrap.

Improperly filtered effluent from asbestos processing plants.

Asbestos: Awaiting 'Trial'

The asbestos industry—whose end products are valued at more than \$500 million/year—may be in for a shake-up. It could come in the form of federal legislation limiting the use of asbestos, because asbestos has been accused—though not yet “convicted”—as a significant health hazard. Probable contender for asbestos markets: plastics.

Recent studies have convinced U.S. Public Health Service specialists and other medical authorities that about 40% of all Americans have mild, chronic cases of asbestosis, even though most of them never worked directly with asbestos.

Unlike other airborne dust particles, asbestos fibers have the ability—almost as much as activated carbon—to absorb polycyclic hydrocarbons and arsenicals. Furthermore, says USPHS, in the past 30 years the asbestos-related cancer rate has increased sixfold.

The Inferences: While the average asbestos worker is well protected, the man on the street is not. The 3x1-micron asbestos fibers in his lungs can come from a variety of sources (*table, above*).

And medical experts say there's no way to assess hydrocarbon content in those lung deposits.

American Cancer Society researchers feel certain there is a synergistic relationship among airborne asbestos, smoking and lung cancer. They reason that the nondegradable, hydrocarbon-soaked fibers may well be a constant source of lung irritation.

PHS officials think it may take them up to five years to establish asbestos' true role as an air pollutant. However, Congress may act before the research is finished. Says Representative Robert Watkins (R., Pa.): “We've seen enough evidence already. Asbestos will never get a clean bill of health. With just a little more data we'll move for controls and strict ones.”

Some form of asbestos control is in the offing, public health officials are certain, if only part of a larger clean-air program. However, there is the danger that Congress may enact rigorous controls on the quantity of asbestos that could be used.

In that case both Canada and U.S. asbestos products manufacturers would be hard hit. Of the five forms of asbestos mined today, chrysotile asbestos holds the predominant market position because of its insulating and processing qualities. Canada produces more than 80% of the chrysotile asbestos used in the U.S. In both countries, a number of serious dislocations would occur.

At present, there is no known material that could fill all of asbestos' strategic roles. On the other hand, should federal controls merely call for higher standards for binders and shieldings, that would spark a rise of new products, with plastics taking the lead.

Reason, say industry spokesmen, present polymer technology could easily turn up products to replace asbestos in most end-uses.