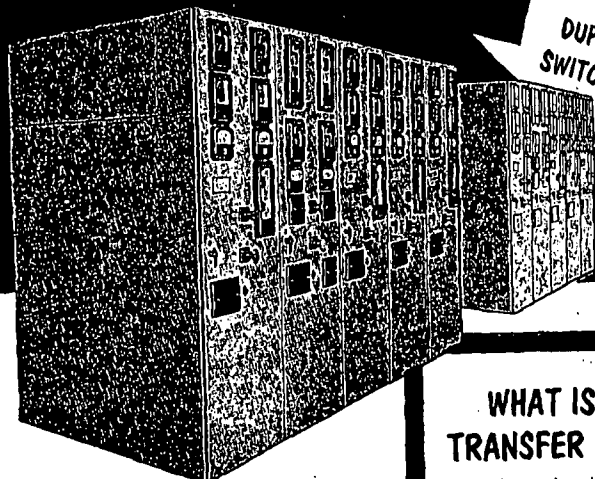


Switchgear ..With Transfer Bus Assures Power Continuity



WITHOUT
THIS
DUPLICATE
SWITCHGEAR

WHAT IS A TRANSFER BUS?

It's a by-pass bus circuit that parallels the main switchgear bus... with means provided for switching loads to the transfer bus. Also makes it possible to withdraw and maintain circuit breakers, or inspect main bus without power outage. This method proved by utilities in hundreds of installations.

Saves 1/3 the Cost

You pay only for the addition of the transfer bus... not a complete set of duplicate switchgear with all of its expensive components. At least one-third is saved on entire installation.

Saves 1/2 the Space

Allis-Chalmers supplies transfer bus in same cubicle as switchgear, without adding cubicles... thus cutting floor space one-half.

Ask an Allis-Chalmers engineer about transfer bus arrangements and what they can mean to your plant in savings and service. And learn too about the unusual features that make it so easy to install A-C switchgear. Call your nearby Allis-Chalmers district office, or write Allis-Chalmers, Milwaukee 1, Wisconsin.

A-3773

ALLIS-CHALMERS



Power

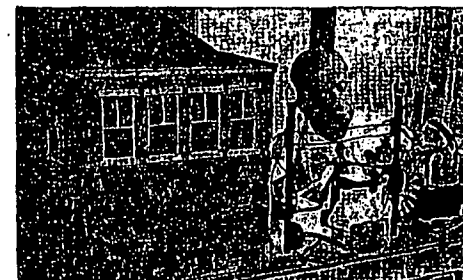
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Swain and one-kettle-power industrial plant

POWER-SHOW VISITORS got a bang out of the humorous model on which Editor Phil Swain puts a finishing touch in the photo above. Product of Phil's agile mind and clever hands, its one-kettle-power turbine spun a homemade generator to light the lamps and turn the factory wheels. And when you pushed the button (left) out popped a sample of the factory's product—a book of genuine Marmaduke Surfaceblow matches. That took some ingenious gadgetry inside the building and Phil had many hours of fun working out the bugs.



Leslie B. Schramm



Andrew G. Hult



Alexander S. Kull

COMPRESSOR KNOW-HOW is a tradition of the Schramm family, and Leslie B. Schramm is no exception. His high-school and college vacations were spent in the shop learning compressors from the ground up. Graduate of Haverford (BS in engineering), Leslie took up full-time duties with Schramm Inc. in 1938, has worked in all departments. He is now sales manager and secretary.

Active in the Compressed Air and Gas Institute, Leslie heads its executive committee, and is also chairman of the stationary compressor section and the committee on engineering education. From this strong background, he puts forward, on p. 75, a distinctive approach to plant air systems.

Leslie finds relaxation in his darkroom and home shop, enjoys making and repairing anything mechanical.

STRUCTURAL PLANNING is a subject on which Andrew Hult speaks with authority, as you can see by turning to pp. 80-83. He has been at it, in one way or another, since before his college days at Rensselaer (CE, 1934). In utility companies, contracting firms and engineering offices, he has gained experience in just about every phase of planning, design and construction.

Even during a World War II stint with the Navy, Andrew was able to carry on along similar lines, developing and testing the pontoons used to make barges, bridges, dry docks, causeways. He also saw service in the Pacific with the fast-moving Seabees.

With Burns & Roe since 1941, he has worked on planning of a wide variety of utility and industrial plants, is now engaged on three large projects.

HIGH-TEMPERATURE hot-water heating may cost more at first but quickly proves its economy, argues Alexander Kull in the article beginning on p. 96. This is in line with his personal philosophy that the seemingly least expensive solution of a problem is often the most expensive in the long run.

Born in Hungary, Alex is a graduate of the University of Pécs (1937) and also of the Technological Academy of Munich. With a background in heating and air conditioning, he came to the U.S. in 1951 under the Displaced Persons Act. Shortly after starting work with American District Steam Co. in No. Tonawanda, N. Y., the rapid expansion of the Adco plant gave him opportunities to prove there the economic worth of high-temperature hot-water heating for large industrial plants.