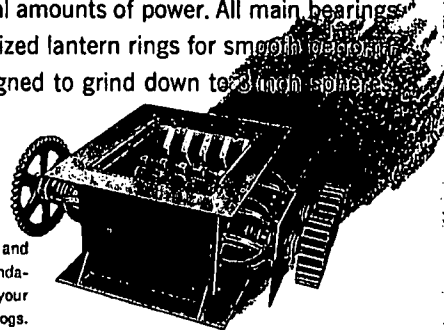


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...with Power readers...

CUTTING VIBRATION

I wish to comment on Francis P. Witmer's article, "How to Cut Vibration in Big Turbine-Generator Foundations," which appeared in November.

For several years I have had the opportunity to design more than a dozen large turbine-foundations up to 150,000-kw capacity. The detailed design of a 100,000-kw unit was described in "Foundation for a Large Turbogenerator," a paper by Paul Rogers, Nov 1951 issue of *Journal of the American Concrete Institute*.

It has been customary to provide a considerable mass to load ratio for such turbine foundations, and experience indicates that supports designed on such basis are relatively free from disturbing vibrations. Lately, however, design engineers have become more conscious of the possibility of resonance between the vibration of the unit and the natural frequency of vibration of the support.

Some recommendations from turbine manufacturers call for the avoidance of such support deflections that would produce equal frequency of vibration with the unit. The formula for such deflection is usually based on the spring factor of a single degree of freedom system.

The supporting girders, however, are

(Continued on page 208)

...lines and bylines



McClellan, Townsend, Krauss and plans for cutting maintenance

GOOD MAINTENANCE STARTS HERE—in the planning of these three Pfizer engineering executives. Director of Engrg D. C. McClellan came to Pfizer 36 years ago, after powerhouse and high-tension work with Westinghouse, Church, Kerr & Co. He's a Univ. of Illinois man.

W. R. Townsend, chief engineer, is a Rensselaer graduate, a member of ASME, AIEE. He gained early experience with American Sugar Refining Co. and several consulting firms before joining Pfizer 23 years ago. Directly responsible for operations described on pp 107-113 is William Krauss, electrical engineer. A Pratt Institute graduate, he's designed and supervised several large Pfizer power and light installations in the 23 years he's been with this growing firm.

FAMILY HOBBIES are Vince Calise's greatest enthusiasm outside his work as Director of Research and Product Development for Graver Water Conditioning Co. Vince, his wife, daughter, and son work in the arts — music, painting, sculpture — as a group. Besides having a lot of fun, the boy shows some talent for sculpture and the girl marked ability at the easel. Vince is modest about his own talents — he just says he finds painting, particularly the abstract variety, extremely relaxing.

Water conditioning has been Calise's prime professional interest since student days at Brooklyn Poly and City College, N. Y. He was with Permutit and Liquid Conditioning Corp before joining Graver.



V. J. Calise

THE ARTS rate high with our authors this month — Alfred Aicher enjoys nothing so much as listening to good music, collects classical records. We're deep in the record-collecting game ourselves but we've never tried Al's other hobby—wood carving.

He studied mechanical engineering at Drexel Institute and started to put it to work at American Engineering Co. Then, in 1919, he moved over to the engineering department of the Yarnall-Waring Co. Later, Al went into field service work and for the past 12 years has been in field sales. From this daily contact with equipment users, Al has picked up a good many ideas about what plant engineers want to know, passes some along in the article beginning on p. 84.



A. L. Aicher

ADS OUT