incorporated in the mechanism be... the weakest link

Some companies, where seal pro... lems have been particularly acute, h... found that considerable savings can b... realized by research programs carried on in addition and supplementary to th... work of seal manufacturers. Specific answers to many of the factors previously mentioned have been obtained, as well as a considerable accumulation of comparative life data between various seal designs and methods of manufacture. *AISE Paper.*

HIGH-TEMPERATURE LUBRICANTS, *by ... L Sumner, Westinghouse Electric Corp.* The ever-increasing demand for lubricants capable of withstanding high temperatures is indicated by NEMA classifications of motor insulations. These include Class O, Class A, Class B, and Class H, designed to withstand temperature hot spots of 90, 105, 130 and 180°C respectively. Bearings and lubricants must be found to function at these temperatures.

Discussed are limitations of orthodox greases (mineral-oil dispersions in soaps) and ordinary laboratory tests for evaluating them for use in antifriction bearings operating at high temperatures.

The paper describes a method for evaluating greases used on ball bearings, individually housed, and ambient heated, that may be run at variable conditions of speed and temperature. *AISE Paper.*

Philip Sporn, president of American Gas and Electric Co and its subsidiary, Indiana and Michigan Electric Co, in presence of officials of the two companies and a number of invited guests, broke ground Sept 1 for the initial step in construction of a new power plant to be located near Lawrenceburg, Ind.

Georgia Power Co will absorb into its power system the energy output of the Army Engineer's 74,000-kw hydro plant at Allatoona Dam. In return, the government may take from Georgia's system a maximum of 2,500,000 kwhr per week for its own power customers. These are the salient features of the 10-year contract signed recently by Georgia Power officials and Interior Secretary Krug. Under the 1944 flood control act, Interior is responsible for sale of all power produced at dams built by the Engineers. Allatoona, located on Etowah River near Cartersville, Ga., is the first of a series of major dams being erected in the southeast by the Army. Disposal of its output conceivably could set a pattern for contracts covering the 204,000-kw Buggs Island development on the Roanoke River and the 280,000-kw Clark Hill project on the Savannah.