Big

Science

Staunch Ally Research Aids Market Drive:

New Fields Seen By BARROW LYONS New York World-Telegram Writer

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"Big Steel," which some have thought slow to blaze new paths of progress, today is in the forefront, pioneering. Some years ago a combination of factors—including both an appreciation of future trends and the competition from lesser companies producing alloy steels—pricked the industrial giant to out ranging for fresh fields to conquer.

bestir himself, and now he is out ranging for fresh fields to conquer.

Through scientific research finto the very fundamentals of steel-making the United States Steel Corp. has discovered principles that are being used in developing new products. Some of these metallic creations, are as different from the steel made a few years ago as the modern automobile is from the chugwagon of Olds.

These products are tougher more ductile, less corrodible. In the last two years, for example, the Steel Corp. has sold its Corten steel for the making of 16,000 freight cars and more than 1,000 passenger cars. This year it is offering its "Brunorized" rails, which promise to wear better than the standard rails now in use, and are tougher and safer particularly in regions where temperatures run low in winter.

Root of Progress
Also, its process of "Austempering," by which certain grades of carbon steel may be made as resilient and tough as many alloy metals, is finding for itself new uses, and promises to develop a large quality market, officials of the company report.

The co-operative research making this expansion possible

LEADERS IN STEEL RESEARCH

R. E. Zimmerman (left, below), is vice president in charge of metallurgy and research of the U. S. Steel Corp. Under him is the laboratory system of the company. Dr. John Johnston (right, below), director of research, licads the Kearny laboratory from which has come revolutionary discoveries, which "Big Steel" expects will broaden its market vastly.





to hasten failure by fatigue.
The research work of steel Corp, however, has not been confined to the development of new products. Much of it has enabled the company to improve the uniformity of its standard products by devising better methods of control of the whole series of operations involved in the production of the finished article.

Big Saving Effected One device alone saves the company \$500,000 a year in the years ago the preventions, when the proper tengerations in the view of the corporation were well convinced that the last word had not been spoken in the making of steel under long-studies of

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