

SOME METHODS OF RESEARCH IN CIVIL ENGINEERING *

By Edward V. Gault, Member Connecticut Society of Civil Engineers, Assistant Professor of Civil Engineering, University of Connecticut, Storrs, Conn.

INTRODUCTION

IN writing about research in engineering, perhaps it would be well to state what is meant by the term research. According to Webster, "research is a studious inquiry; usually a critical and exhaustive investigation or experimentation having for its aim the revision of accepted conclusions, in the light of newly discovered facts" This is a comprehensive definition and is intended to apply to all fields, scientific, technical, and humanistic. In the field of engineering, research is generally understood to be work directed toward the improvement of a material or process. Certainly, it is the purpose of engineering research to assist in making practice safe and economical. To do this, there must be co-operation between the research worker and the practicing engineer. Each must be aware to some extent of the other's problems. The research worker should constantly keep the practical aspects of the problem before him and the practicing engineer should have more than a latent interest in research.

The field of civil engineering is broad and the divisions numerous. It has been described as "the art of directing the great sources of power in nature for the use and convenience of man, as the means of production and of traffic in states; both for external and internal trade; as applied in the construction of roads, bridges, aqueducts, canals, river navigation and docks; in the construction of ports, harbors, and lighthouses; in the art of navigation by artificial power for purposes of commerce; in the construction and adaptation of machinery; and in the drainage of cities and towns". This description of civil engineering was given in 1828 by Thomas Telford, first president of the Institution of Civil Engineers of Great Britain. Although the civil engineer today is not concerned with all of these phases, the description indicates the breadth of the field. A list of the divisions of civil engineering today would include materials, structures, hydraulics, water supply, sanitary engineering, transportation, surveying, foundations and soil mechanics, and city planning. These are general classifications, and within each division there are many subjects which lend themselves to research. It follows that the tools and methods of research differ greatly. Some of

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