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PREFACE

The Research Committee of the Nordic Concrete Federation is very pleased to present herewith volume 5 of "Nordic Concrete Research" which contains selected papers on research projects within the field of the technology and structural design of concrete, carried out or concluded during 1986 in the five Nordic countries.

We hope that the present issue of Nordic Concrete Research will also find many readers throughout the world and stimulate the establishment of personal contacts and cooperation between concrete researchers in our part and the rest of the world.

Readers are invited to take note of the fact that the 13th Nordic Concrete Research Conference will take place in Odense, Denmark on August 12-15, 1987. In this connection a special edition of Nordic Concrete Federation's magazine "Nordisk Betong", containing summaries (in English) of all ongoing research projects in the Nordic countries, will be issued. Further information may be obtained by contacting Dansk Betonforening, Vester Farimagsgade 31, 1606 Copenhagen V, Denmark.

Thanks are due to the Norwegian Concrete Association for organizing the printing and distribution of this volume of Nordic Concrete Research.

Aalborg, November 27, 1986

Palle Nepper-Christensen
Chairman of the Research Committee

THE NORDIC CONCRETE FEDERATION'S RESEARCH COMMITTEE

The Research Committee acts under the auspices of the Nordic Concrete Federation which embodies the Concrete Associations of the five Nordic countries. The aim of the committee is to stimulate and, when possible, coordinate the concrete research in the member countries. By creating fora where scientists can present and exchange views on their current research projects, the Committee endeavours to fullfill its task. Thus, a number of small seminars on special topics as well as triennial research congresses are arranged by the Committee.

It also falls within the competence of the Research Committee to issue "Nordic Concrete Research", an annual publication containing selected papers on current concrete research projects in the Nordic countries.

By the end of 1986, the Committee had the following composition:

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