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9/8/88

DANISH
CONCRETE ASSOCIATION

DBF

6th INTERNATIONAL CONFERENCE

ALKALIS IN CONCRETE

Research and Practice

PROCEEDINGS

TECHNICAL UNIVERSITY of Denmark
COPENHAGEN ^{22.-25.} JUNE – 1983

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Preface

C.F. Møller
Chairman, Danish Concrete Association
Head, research and marketing, Højgaard & Schultz A/S

It has been a pleasure for the DANISH CONCRETE ASSOCIATION to organize the 6th International Conference on ALKALIS IN CONCRETE, research and practice.

The Conference attracted 187 registered participants, representing 21 different countries. 56 papers are contained in these PROCEEDINGS and most of them were presented during the three day Conference.

In Denmark we have studied the problems of alkalis in concrete since the early 1950's which makes us one of the pioneering countries investigating this subject. Therefore, it is with some concern that we in recent years - and confirmed during this Conference - have seen a global spreading of the problems of alkali-aggregate reactions, with serious cases of damage being reported from an increasing number of countries.

This indicates that the engineering practice still does not possess fully dependable and generally applicable concepts about how to predict and prevent the deleterious effects of alkalis in concrete. The large number of Conference contributions focusing on this fact reflects a need for the researchers to communicate their knowledge in a form more readily applicable by engineering practice.

In this respect the Conference was exceptional among concrete research meetings in having one session dedicated to educational aspects. As it turned out, contributions and discussions were concerned with the communication gap between research and practice and with the educational training on both pre- and post-graduate level. These discussions gave stimulating input to the Danish Concrete Association where we recently have taken measures to intensify our engagement in initiating and coordinating educational activities on all levels within the concrete professions.

The first International Conference on Alkalis in Concrete, 1974, took also place in Denmark. Then, as well as now, the initiative was taken by Dr.techn. Gunnar M. Idorn, and the Danish Concrete Association acknowledges Dr. Idorn's valuable efforts in bringing Danish concrete researchers and practicing engineers into closer contact with corresponding international activities.

Furthermore, the support received from all who have contributed to the smooth planning and running of this Conference is acknowledged. This includes the Technical University of Denmark hosting the Conference, the Honorary Presidium, the Scientific Programme Committee - and especially the Organizing Committee whose deep engagement in the preparations is highly appreciated.

Special appreciations go also to all the Conference sponsors whose support was a precondition for the non-profit Danish Concrete Association to venture into this event.

Finally I wish to thank Cowiconsult, Consulting Engineers and Planners AS, for readily providing all secretarial functions, and particularly I thank Dr. Steen Rostam, Chairman of the Organizing Committee, who has been the driving force during all phases of the preparation and running of the conference as well as for the preparation of these Proceedings.

© Dansk Betonforening
(Danish Concrete Association)

December 1983

Address:
Vester Farimagsgade 31
DK-1606 København V
Denmark

Printed by:
The Road Directorate, Denmark
ISSN-0106-0406
ISBN-87-87823-36-5

