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SEMINAR ON ALKALI-SILICA REACTION

P R O G R A M M EMonday, 20th May:

9.00 - 9.20	Opening of the Seminar, Introduction, and Adjustment of Agenda	G.M. Idorn
9.20 - 10.30	SESSION 1: »Concepts of Reaction Kinetics and Deformation/ Fracture Mechanics in Concrete»	Chair: G.M. Idorn
	»Mechanism of Alkali-Silica Reaction and Expansion»	S. Diamond
	»Elementary Reactions and Kinetics of the Alkali-Silica Reaction»	D. Hirche
	»Examination of the Water Absorption and the Viscosity of the Alkali-Silica Gels»	H. Krogh
	»Stress Distribution and Failure Mechanism for Pop-Outs in Concrete»	E. Poulsen
10.30 - 10.45	Questions and Comments	
10.45 - 11.00	Refreshments	
11.00 - 12.20	SESSION 2: »Identification and Designations of Reactive Substances and Rock Types — Specification of Reference »Reactive Materials» for Comparative Experimental Use»	Chair: L. Hjorth
	»Special Identification Methods of Alkali Reactive Aggregates»	Dr. Wolff
	»Opal - its Classification and Determination»	F. Khoo
	»Experiences with the Pyrex-Mortarbar-Test»	H.-G. Smolczyk
	»Expansion - No Expansion»	N. Thaulow
12.20 - 12.30	Questions and Comments	
12.30 - 14.30	Lunch	

14.30 - 15.40

SESSION 3:

»Influence of Concrete Composition and
Structure in View of Modern Technology –
Identification and Influence of Environmental
Parameters»

Chair:
H.C. Sørensen

»Damage to Concrete From Reactions
Between Aggregates and Alkalies»

K. & B. Mather

»Influence of the Aggregate and the Alkali
Content in Concrete on the Alkali-Aggregate
Reaction»

F.W. Locher

»The Cement Manufacturers' View of
Alkali-Silica Reaction»

J. Svendsen

15.40 - 16.15

Questions and Comments

approx.16.15

End of Sessions

approx.16.15

Refreshments

19.00

Dinner at Hotel Hvide Hus

Tuesday, 21st May:

9.00 - 12.00

»Some Investigations on Alkali Aggregate
Reaction»

G. Gudmundsson

Plenary Session

12.00 - 14.00

Lunch

14.00

Departure from Hotel

14.15 - 15.45

Visit to Concrete Research Laboratory Karlstrup (BFL)

16.00

Return to Hotel

17.00

Departure from Hotel

18.00 - 20.00

Reception at Danish Concrete Association, Copenhagen

20.00

Lecture by Bryant Mather (invited by the Danish Concrete Association):
»Useful Research On Cement And Concrete»

P A R T I C I P A N T S

Colleagues in contact with AALBORG PORTLAND R&D regarding basic problems of alkali-silica reaction were invited to exchange views and news.

Professor Sidney Diamond
Purdue University
U. S. A.

Katharine Mather, Chief,
Petrography and X-Ray Branch
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From Concrete Research Laboratory Karlstrup
(Aalborg Portland, R&D Division):

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Lars Hjorth, M.Sc.
G.M. Idorn, D.Sc.
Torben Knudsen, Ph.D.
Hans Chr. Sørensen, Ph.D.
Niels Thaulow, M.Sc.

Anne Kirkebak, Secretary