

CEMENT and CONCRETE RESEARCH

An International Journal

(ISSN 0008-8846)

Editor-in-Chief: PROFESSOR DELLA M. ROY

217 Materials Research Laboratory

The Pennsylvania State University

University Park PA 16802 USA Tel: 814-865-1137 Case Section

Managing Editor: KATHLEEN S. MOURANT

HONORARY EDITORIAL BOARD

FRANCISCO de ASSIS BASILIO

Rua da Assembléia No. 41-6 andar Centro
20011-Rio de Janeiro BRAZIL

DR. G.M. IDORN

Tovevej 14B
2850 Naerum
DENMARK

PROF. H.F.W. TAYLOR, D.Sc., Ph.D.

7 Loirsbank Road Cults
Aberdeen AB1 9NE SCOTLAND

BOARD OF EDITORS

DR. ZDENĚK BAŽANT

W.P. Murphy Professor of Civil Engineering
Northwestern University
Evanston IL 60208 USA

DR. A.K. CHATTERJEE

Director & Chief Executive
Research & Consultancy Directorate
The Associated Cement Companies Ltd.
CRS Complex, L.B.S. Marg
Thane 400 804, INDIA

PROF. MASAKI DAIMON

Department of Inorganic Materials
Tokyo Institute of Technology
Ookayama, Meguro-ku
Tokyo JAPAN

PROF. SIDNEY DIAMOND

School of Civil Engineering
Purdue University
Lafayette IN 47907 USA

DR. GÖRAN FAGERLUND

Division of Building Materials
Lund Institute of Technology
University of Lund, Box 118
S-221 00 Lund, SWEDEN

DR. ELLIS GARTNER

Manager, Cement & Concrete Research
W.R. Grace & Co., Research Division
7379 Rt. 32, Columbia, MD 21044 USA

MR. VAGN JOHANSEN

G.M. Idorn Consult A/S
Brædvej 2
DK-2830 Virum, DENMARK

DR. G.F. LITVAN

248 Range Road
Ottawa, Ontario K1N 8J8 CANADA

PROF. DR. FRIEDRICH W. LOCHER

Temühlenweg 6
D-40885 Ratingen, GERMANY

DR. A.J. MAJUMDAR

Building Research Station
Department of the Environment
Garston, Watford WD2 7JR ENGLAND

PROF. FRANCO MASSAZZA

Italcementi S.p.A., Via G., Camozzi 124-
124100 Bergamo ITALY

PROF. G.J. MCCARTHY

Department of Chemistry
North Dakota State University
Fargo, ND 58105 USA

PROF. SIDNEY MINDESS

British Columbia University
Department of Civil Engineering
Vancouver BC V6T 1W5 CANADA

PROF. A.M. NEVILLE D.Sc., Ph.D.

24 Gun Wharf 130 Wapping High Street
London E1 9NH ENGLAND

PROF. DR. IVAN ODLER

Institut für Nichtmetallische Werkstoffe
Technische Universität Clausthal
3392 Clausthal-Zellerfeld GERMANY

DR. S.E. PIHLAJAARA

Technical Research Centre of Finland
Otaniemi FINLAND

DR. C.D. POMEROY

Consultant
Hollybank, Christchurch Road
Virginia Water GU25 4PT ENGLAND

PROF. P.L. PRATT

Dept. of Metallurgy & Materials Science
Imperial College-Prince Consort Road
London SW7 2BP ENGLAND

PROF. M. MORANVILLE-REGOURD

26 Rue Bazout
F-75014 FRANCE

PROF. DR. ING ZDENEK SAUMAN, D.Sc.

Research Institute of Building Materials
BRNO 17, Hněvkovského 65
CZECHOSLOVAKIA

PROF. M.M. SHULTZ

Member of the Academy of Sciences USSR
Director of Grebenshchikov Institute for
Silicate Chemistry
nab Makarova 2
199184 St. Petersburg RUSSIA

DR. JAN P. SKALNY

350 Hochberg
Monroeville, PA 15146 USA

MRS. DANIELLE SORRENTINO

Senior Scientist
Lafarge Coppes Recherche, B.P. 16,
38291 Saint Quentin Fallavier FRANCE

PROF. FERENC D. TAMAS

Institute of Silicate Chemistry & Technology
The University of Veszprém
H-8201 Veszprém P.O.B. 158 HUNGARY

DR. HIROSHI UCHIKAWA, P.E.

Executive Director, Research and
Development
Onoda Cement Co., Ltd.
No. 2-4-2, Ohsaku, Sakura, Chiba, 285
JAPAN

PROF. DR. HABIL WOLFGANG WIEKER

Technical University Berlin
Baukonstruktion u. Festigkeit
Rudower Chaussee 5 Haus 4.1
Berlin 12484 GERMANY

PROF. DR. FOLKER WITTMANN

Institut für Baustoffe
ETH-Hönggerberg
CH-8093 Zürich, SWITZERLAND

PROF. WU ZHONG-WEI

Vice Director and Chief Engineer
c/o Chen Enyl, Tsinghua University
Department of Civil Engineering
Beijing 100084 P.R. CHINA

Production Editor: Doug Chernow, E-mail: D.CHERNO@ELSEVIER.COM.

Editorial Office: Professor Della M. Roy, 217 Materials Research Laboratory, The Pennsylvania State University, University Park, PA 16802 USA.

Publishing, Subscription and Advertising Offices: Elsevier Science Inc., 660 White Plains Road, Tarrytown NY 10591-5153 USA, E-mail Address: ESUK.USA@ELSEVIER.COM; or Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford, OX51GB, England.

Published Eight Times per Year: Annual institutional subscription rate (1995): North, Central and South America, U.S.\$656.00, Rest of World £440.00. Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.